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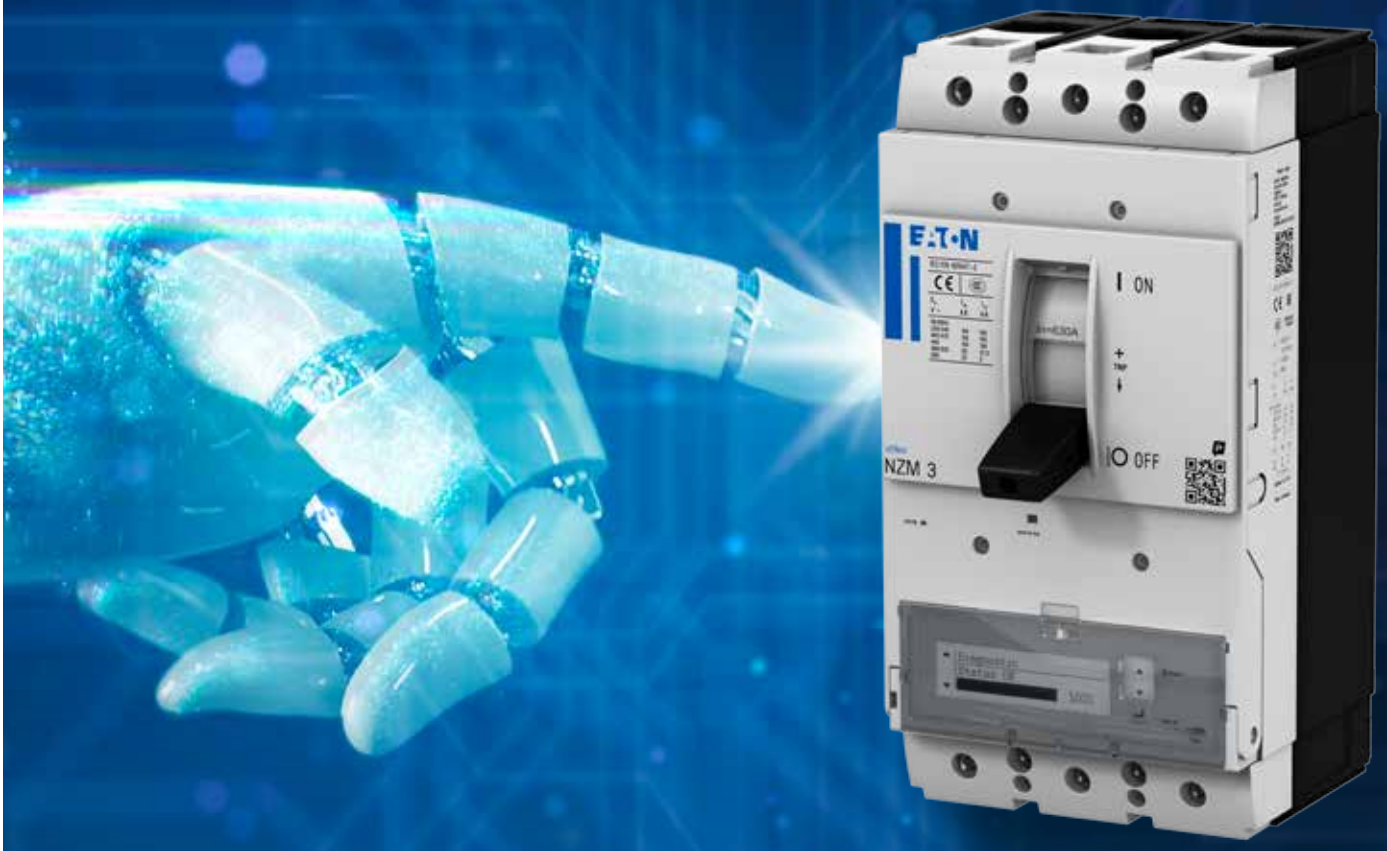
MOELLER
SERIES

The future starts now



The new digital NZM
compact • reliable • innovative
Catalog 2021

EATON
Powering Business Worldwide

Ebda'a Al-wakeel
Electrical and lighting materials trading

Powering Business Worldwide

Compact circuit breakers, switch disconnectors

Content

System overview

1230PIC-785 Symbolphoto

1. Compact circuit breakers, switch disconnectors IEC

1230PIC-785 Symbolphoto

2. Compact circuit breakers, switch disconnectors UL/CSA, IEC

1230PIC-802 Symbolphoto

3. Compact circuit breakers, switch disconnectors IEC, EC, UL/CSA

1230PIC-721 Symbolphoto

4. Accessories

System overview

1230PIC-677 Symbolphoto

5. Construction

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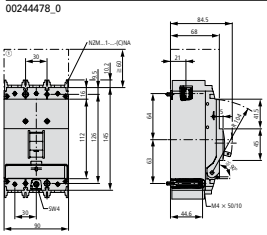


Thinking ahead. Shaping the future.

Switch, protect control, measure, communicate:

The energy supply and distribution systems of tomorrow have to contend with multiple competing demands. And Eaton has the right products to meet these challenges. Because Eaton, as a global leader in many technology areas, understands what panel building is all about.

For Eaton, future-oriented energy management means: to tackle complex tasks head-on with smart, simple solutions; to develop products that cover a broad range of applications and to provide all markets and sectors with the necessary systems for ensuring a safe, reliable and efficient energy future.

Eaton's product range leaves nothing to be desired, from the big picture down to the smallest detail:

- **MODAN** offers globally proven modular switchgears for a wide range of building and industrial applications up to 6,300 A
- With **xEnergy** Eaton is able to offer safety-tested switchgear systems for power distribution systems up to 5,000 A
- Eaton's new **digital NZM circuit breakers** are universally suitable for rated currents from 20 A to 1,600 A; they are now also equipped with the innovative **PXR electronic release** technology

MODAN modular switchgear

Low-voltage switchgear assemblies up to 6,300 A

MODAN® provides safe, communications-enabled power distribution systems for global markets, which can be easily combined while ensuring maximum availability. Even in the standard version, MODAN systems are renowned for their extreme reliability and safety.

The space-saving design with standardized function modules enables fast planning, handling and commissioning, offering tailor-made solutions for building and industrial applications up to 6,300 A.

xEnergy Main

Low-voltage power distribution systems up to 5,000 A

The xEnergy switchgear system has been designed to meet demands that are constantly growing: This makes it ideal for building infrastructure up to 5,000 A. Every function block has been carefully and systematically calibrated, from the switchgear and mounting technology to the enclosures and the requisite software. You will not only get safety-tested switchgear that represents the state of the art – you will also save time, money and space.

xEnergy combines maximum safety with easy planning:

- xEnergy fully complies with the IEC 61439 standard.
- To make the planning and assembly of an xEnergy system as easy as possible, we offer our established planning tool, the xEnergy configurator, free of charge.

The NZM series – circuit breakers up to 1,600 A

Best in class

Eaton's NZM series circuit breakers cover rated currents of 20 to 1,600 A – with only four frame sizes. And they are also optimally matched to each other. The wide range of possible applications covers every need. Eaton took a close look at what customers really want and designed the product accordingly.

What stands out, for example, is the comprehensive system of accessories, which can be individually assembled and easily installed in line with specific application requirements. The same goes for the flexible terminals, which offer increased safety for operators thanks to the variety of available covers.

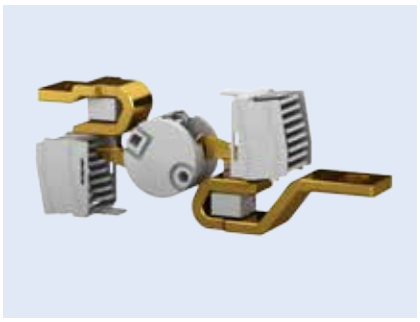
The circuit breakers are thus suitable for universal use – from small distribution boards to machine controls and motor-starter combinations, and all the way to large power distribution systems with a short-circuit breaking capacity of up to 150 kA.

Full performance, compact design

The new digital NZM circuit breakers combine full performance with a compact design. The circuit breakers and accessories have been designed in such a way that their function, assembly and handling are the same throughout, in order to make your work as simple as possible.

Various types of releases are available, including cost-effective versions with bimetallic strips and models with communications-enabled digital electronics, which can take on a variety of protective functions. This makes them suitable for use in both AC and DC networks – from cable protection to the protection of motors, generators and transformers. With switch-disconnectors up to 1,600 A, implementing applications such as main switches, emergency power-off switches and coupler switches is quick and simple.

Despite their slim design, the NZM circuit breakers can handle loads with rated currents up to 1,600 A, and they can safely switch off short-circuit currents up to 150 kA.
The innovative switching technology with double-break contacts helps to speed up the switching process.
In the event of a short circuit, the special design and the selected materials will generate repulsive magnetic forces that fling open the contacts in a fraction of a sine wave.
Switching capacities up to 150 kA and operating voltages up to 690 V pose no problem at all. At the same time, thanks to their optimal rate of power loss, the devices have a positive impact on the size of the control panel.
The digital NZM circuit breakers are suitable for use in even the toughest environments, such as mining (up to 1,000 V AC), renewable energy (up to 1,500 V DC) and other power-intensive applications with high switching capacities at 690 V AC (e.g. data center, marine and renewable energy applications etc.).



Circuit breakers offer comprehensive protection:

They protect entire systems while offering many additional functions

1. The NZM protects systems
as well as cables across all levels, from the main distribution board all the way to the load itself.
See page 26

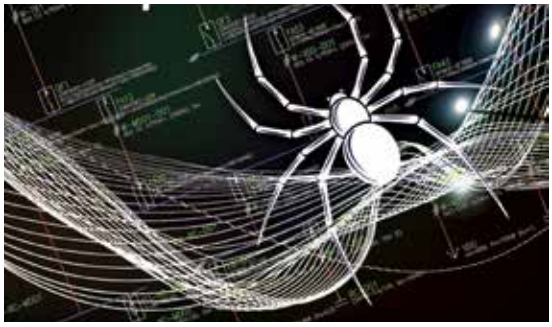
2. The NZM protects motors
as well as motor-starter combinations and input wiring against overloads and short circuits.
See page 27

3. The NZM offers full-range protection
and selective protection for many applications.
See page 28

4. The NZM offers earth-fault protection

with integrated alert and trip functions as well as ARMS and ZSI.

See page 28



5. The NZM offers selectivity and backup protection

against excessive short-circuit currents.

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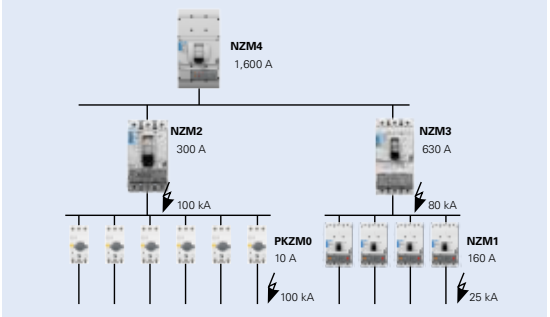


6. The NZM offers zone selectivity and protection against electric arcs

with the patented Arcflash Reduction Maintenance System.

See page 30

7. The NZM offers protection against residual currents

for universal mounting, or for mounting directly on the circuit breaker.

See page 31

8. The NZM protects DC systems

either as a circuit breaker with thermo-magnetic release, or as a switch-disconnector.

See page 32

9. The NZM protects special applications

with high switching capacities at 690 V AC, at high frequencies, in IT networks, and at 1,000 V AC.

See page 33

10. The NZM offers protection and ISO 50001
energy metering with Class 1 accuracy in accordance with IEC 61557-12.
See page 36

Which release provides the right type of protection?

	TMTU				PXR10	PXR20			PXR25		
Release	**-A**	**-AF**	**-M**	**-S**	**-AX**	**-MX**	**-VX**	**-VX...-T**	**-PX**	**-PX...-TZ(TAZ)**	**-PMX**
T = Thermomagnetic E = Electronic	T	T	T	T	E	E	E	E	E	E	E
Protective features											
Overload protection	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
Short-time delayed short-circuit protection	-	-	-	-	-	-	✓	✓	✓	✓	-
Non-delayed short-circuit protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Earth-fault protection	-	-	-	-	-	-	-	✓	-	✓	-
ARMS maintenance mode	-	-	-	-	-	-	-	-	-	✓	-
ZSI zone-selective interlocking	-	-	-	-	-	-	-	-	-	✓	-
Additional functions											
Suitable for DC protection	✓	-	-	-	-	-	-	-	-	-	-
USB interface	-	-	-	-	✓	✓	✓	✓	✓	✓	✓
Current measuring (data readout)	-	-	-	-	-	✓	✓	✓	✓	✓	✓
Comprehensive data collection, including Class 1 energy metering	-	-	-	-	-	-	-	-	✓	✓	✓
Communications-enabled	-	-	-	-	-	✓	✓	✓	✓	✓	✓

Is a thermo-magnetic or an electronic release the better option?

The right protection for the task at hand

Thermo-magnetic trip units offer protection against overloads and short circuits. Electronic releases, meanwhile, make it possible to fine-tune the protective effect and to enhance it exponentially. On the one hand, electronic systems trip much more flexibly and precisely thanks to the use of digital electronics. On the other hand, by recording the data digitally, they also open up new possibilities for analytics and predictive maintenance. The most important technical aspects of the two types of releases are explained in detail below.

Thermo-magnetic overcurrent releases

Thermo-magnetic releases are the basic release mechanism for protection against overloads and short circuits. This type of release is ideal for cost-effective system designs up to 500 A. It is suitable for use in three-phase networks, AC networks and DC networks as well as for 400 Hz applications.

Thermal releases

A so-called bimetallic strip is used as the release element in thermally (current-dependent) delayed overload releases. This bimetallic strip is composed of at least two different metals with different coefficients of thermal expansion. The coefficient of thermal or linear expansion indicates the expansion of an object at a temperature increase of 1 K. When a rotor stalls, for example, the motor will draw more current. As a result of this increased current consumption, the current-carrying components of the motor-protective circuit breaker will experience a greater increase in temperature. This means that the metal with the greater coefficient of thermal expansion will expand at a higher rate, causing the bimetallic strip to start bending. This bending results in the release of the internal breaker mechanism, thereby tripping the motor-protective circuit breaker. The circuit breaker's main contacts will then open, which interrupts the supply of power to the motor, so that the corresponding motor fault can be repaired without danger. Once the motor-protective circuit breaker is switched back on, the motor will again start up.

Magnetic releases

In a circuit breaker, a magnetic overload release performs the short-circuit tripping function. This release works based on the principle of an electromagnet and a current coil. This current coil is not energized by a separate voltage source – instead, the main current flows directly through it. In the event of a short circuit, a large overcurrent will flow through the current coil. The resulting magnetic field will pull the armature into the coil, meaning it will then hit the moving contact piece. This momentum, together with the dynamics of the short-circuit current itself, will cause the contacts to open abruptly, thereby safely disconnecting the short-circuit current. The breaker mechanism will be released simultaneously. As a result, the circuit breaker will remain in the "OFF" position after the short-circuit current has been switched off.

Ambient temperature compensation

The NZM1 and NZM3 type A releases are not temperature compensated. The NZM2-A and all NZM-M motor-protective releases compensate the ambient temperature by means of an additional bimetallic strip. This compensation significantly reduces the impact of the ambient temperature on the functioning of the thermal release, which in turn improves the current-carrying capacity.

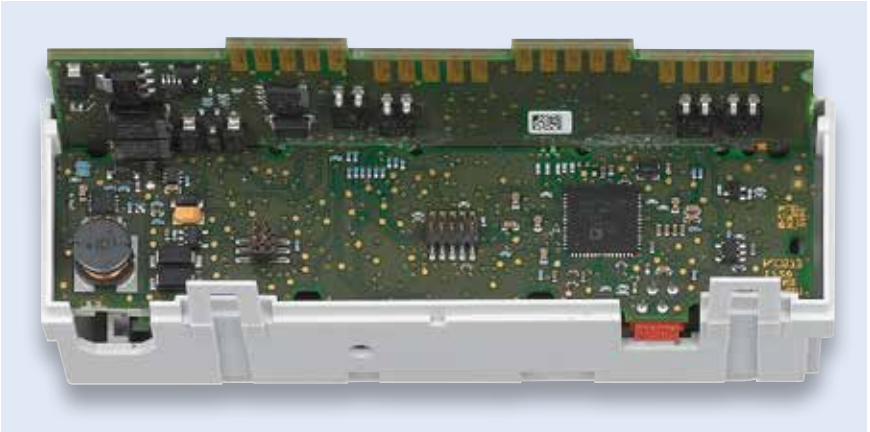
The electronic releases have been equipped with a microprocessor to ensure improved operational continuity.

Electronic trip units
The digital electronics are controlled by the microprocessor, making it possible to determine the values of the load current that is being monitored. In contrast to analog electronic systems, the digital electronics will correctly evaluate any harmonics occurring in the network to prevent undesired early tripping.
This helps to avoid unnecessary downtime.

Dedicated components simulate a thermal memory even when no current is present and the circuit breaker has tripped due to load overload. This ensures the reliable protection of the connected equipment – even if the cooling-down phase prior to the system restart was too short.

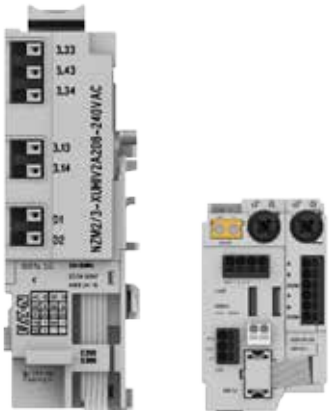
The proper functioning of the electronic components can be checked during protection via a run-in test. Thermocouples ensure the safe tripping of the circuit breaker in the unlikely event that the electronic components overheat.

Redundant safety
A parallel mechanical solution ensures maximum safety in the case of very high short-circuit currents, as the hinged armature functions as an additional magnetic release. This release will trip within only a few milliseconds.



Power Xpert Release

The next generation of electronic releases – now also available for the NZM



With the Power Xpert Release (PXR) Eaton has developed a new platform for trip units. This technology has already been integrated in the IZMX series of air circuit breakers, and is now also available for the compact circuit breakers of the NZM series.

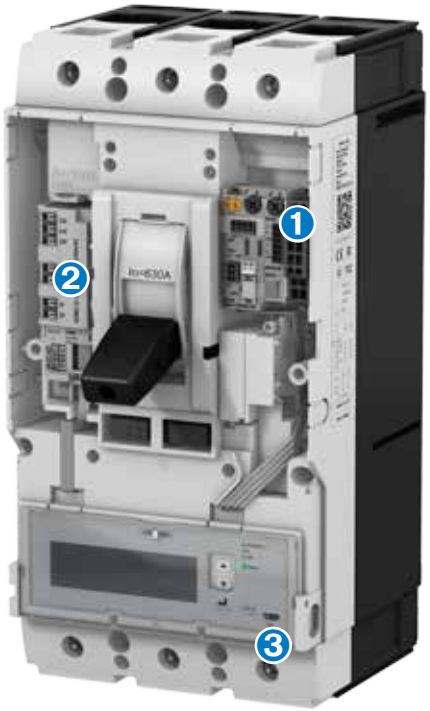
The PXR is a powerful trip unit for professional users. Our customers' greatest possible benefit is always our main priority. Therefore, the PXR combines easy handling across all frame sizes with state of the art technology, a wide range of practical functions and, as always, a proven safety record.

The PXR technology makes it possible to configure and test the circuit breakers from a PC via a USB port. This makes it very easy to access the information generated by the switchgear, to save the test data and to print it. This is the fastest and most convenient way to continuously improve control and maintenance systems. All sensitive data and settings are password-protected to prevent unauthorized access.

Improved lifecycle management through digital circuit protection

What does lifecycle management mean and what are the benefits for users?
Different approaches from Eaton and their advantages and benefits are discussed in this white paper.

Convincing in every way



Saving our users time and offering them the broadest possible range of applications – these were the goals Eaton had in mind while developing the Power Xpert Release platform.

❶ As such, we have equipped the PXR with a consistent design and clear menu navigation that will simplify your day-to-day work. With the PXR, communications are similarly easy: The many available communication modules for various bus systems allow for high-performance connections in line with the respective system requirements. Additionally, the integrated Modbus RTU connection also saves space during installation.

The new, fully integrated control and measurement technology creates additional benefits for customers

❷ The integrated relays inside the voltage release enable the control of any associated components, alongside the display of operating states (such as alert notifications), the control of remote operators and motor-starter combinations, and much more.

❸ The USB interface allows for easy connection to a PC to change the settings, conduct analyses or launch one of the test function.

The Rogowski coil transformer supports ISO 50001 energy management with Class 1 energy metering in accordance with IEC 61557-12.

The PXR25 premium version with display

With the PXR25 premium version (=NZM...PX), you can keep everything in sight. For intuitive handling and to make configuration even easier, the PXR25 is equipped with a high-resolution display. You can enter the desired settings via this display. You can choose between protection settings and soft settings (additional settings). The settings of PXR switches can also be easily adjusted by using the Power Xpert Protection Manager (PXPM) software for PC.
With the PXR20 version, you can adjust the protection settings using the rotary heads on the circuit breaker itself, while the soft settings can be adjusted using the PXPM software.

What the PXR is capable of

The most important benefits and features at a glance

One design for all products
The consistent design for all product groups and the clear, ergonomic arrangement of the various elements ensures that the operation is the same operation and configuration of the PXR across the whole range of compact and open circuit breakers.

Now also with LED light for status and overload indication
A green-red dual LED indicates the current status: In start-up mode, the LED is permanently green. Green flashing indicates normal operation. Red flashing indicates an error in the electronic trip unit (tripping unit). The overload LED indicates the load status of the circuit breaker.
This warning can also be transmitted via the integrated communications. The PXR20 is fixed at 80 % and 105 % of I_r. The PXR25 has same default-values as the PXR20, but in this case they can be adjusted as required.

Everything under control – thanks to the high-resolution display
The high-quality, full graphic display features a premium pixel matrix for enhanced contrast and brightness. The uniform menu navigation has been designed for maximum user-friendliness.

Always the right setting
The new NZM is fully adjustable over an extended range. The customary PZ2 screwdriver can still be used. The VX trip unit of the NZM2 can now also be set for the instantaneous release range. In addition the NZM2 now comes with optional ground fault protection.

The PXR – a real knack for connectivity
The PXR electronic release uses the modern communications platform provided by the CAM interface and the internal Modbus RTU module, with possible connections to numerous systems such as PROFIBUS, ProfiNet, Modbus TCP etc.

New modules that make things easier

Interface module
This module is used to detect the status of the circuit breaker by means of photoelectric light barriers, and for connection to enhanced functional interfaces. Each version has been specifically adapted to the respective circuit breaker type. A 24 V DC screw terminal supplies the tripping unit with power. Photoelectric sensors detect the respective device status (on/off/tripped) and relay it via the communication connection. In the event of a short circuit, zone selectivity ensures a faster and more precise shutdown. In addition, the module can be used to connect an internal Modbus RTU module, to remotely operate the ARMS maintenance mode, and to connect the CAM interface to any external communication modules.

The internal Modbus RTU module
A Modbus RTU connection can be integrated internally, so that no external communication components are required. The connection to a superordinate system saves space and allows for the quick and cost-effective transmission of data. As a result, your system will be optimally prepared for all Industry 4.0-related tasks.

Relay module
The relay module contains two programmable relays, in addition to established components such as the undervoltage release. These relays can be used, for example, for the remote control of drives or to control motor starters. They are equally suitable for alert notifications or status messages.

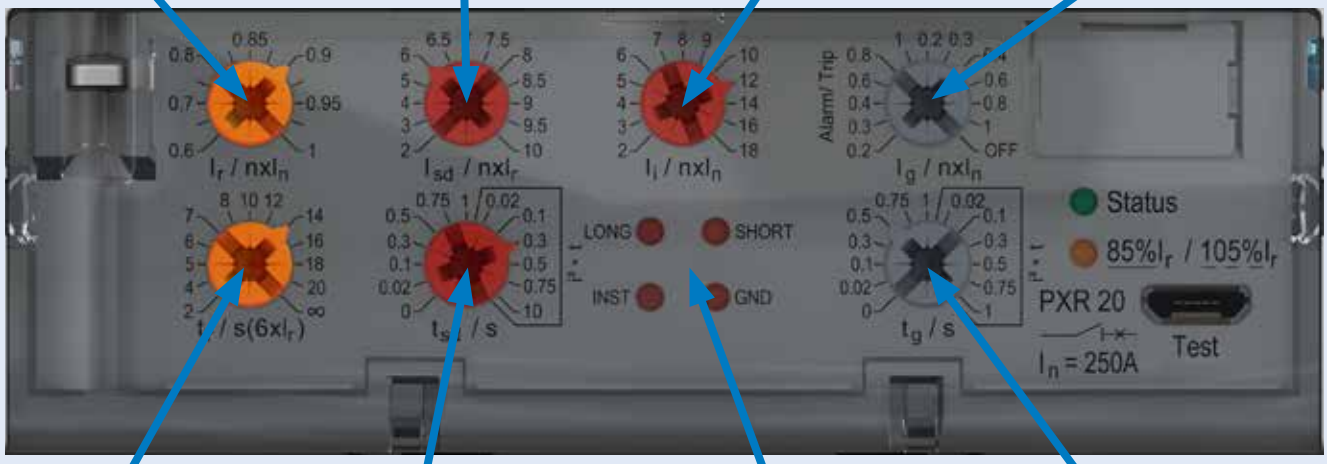
How to correctly adjust the PXR

Overload release I_r
now with extended 13-point adjustment range
(from 0.4 to 1 x I_n) .

Delayed short-circuit release I_{sd}
To ensure the selectivity of the mains connection, the circuit breaker will trip after the set delay time t_{sd}.

Non-delayed short-circuit release I_i
The threshold value can be set between 2 and 18 x I_n. The I_i value refers to the rated current I_n.

Earth fault protection I_g
Should excessive earth impedance prevent the tripping of the short-circuit release, the earth fault protection will automatically issue an alert and and switch off the device.



Time lag t_r
Stipulates the time lag after which an overload of 6 x I_r causes the device to trip. Adjustable in increments of t_r = 2 to 20 or ∞.

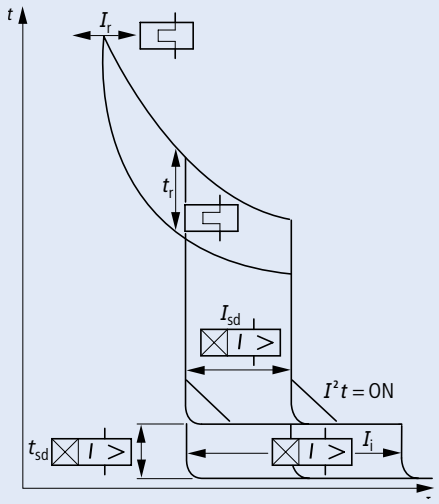
Time delay t_{sd} (with reference to I_{sd})
Adjustable in 7 steps, from 0 ms to 1,000 ms, for delayed tripping in the event of a short circuit.

"Tripped" message
If the circuit breaker trips, the corresponding LED will indicate the reason, e.g. an overload.

Time delay t_g (with reference to I_g)
Thanks to the time delay t_g = 0 ms to 1,000 ms, a selective shutdown is possible even in the event of an earth fault.

Electrical parameters

I_r	–	Overload release
t_r	–	Time lag
I_{sd}	–	Delayed short-circuit release
t_{sd}	–	Time delay
I_i	–	Non-delayed short-circuit release



TYPE			NZM1						
									
General information			**NZME1**	**NZMB1**	**NZMB1**	**NZMC1**	**NZMN1**	**NZMS1**	**NZMH1**
Number of poles			1	1	3, 4	3, 4	3, 4	3, 4	3, 4
Degree of protection									
of the device (operating elements)	IP20					✓			
of enclosure and bezel	IP40		-	-			✓		
of enclosures with rotary handles	IP66		-	-			✓		
Dimensions (WxHxD)		mm	30x145x84.5		3-pole: 90x145x84.5 4-pole: 120x145x84.5				
Ambient temperature	Storage at -40 °C to +70 °C					✓			
	Operation at -25 °C to +70 °C					✓			
Feed-in top or bottom						✓			
Mounting positions	In general					Vertical and 90° in all directions			
	NZM2 plug-in units		-	-	-	-	-	-	-
	NZM withdrawable units		-	-	-	-	-	-	-
Electrical properties in accordance with IEC 60947-2									
Rated operational current I_n at 40 °C	AC-1	A	16-125				16-160		
	AC-3 for S,M, MX, PMX	A	-	-			36-81		
	DC-1	A	-	-	-	-	16-125	-	16-125
Rated operational voltage U_e	AC 50/60 Hz	V	230		440		690		
	DC*	V	-	-	-	-	450	-	450
For use in IT networks		V	-	-	440		690		
Rated insulation voltage U_i		V	400				690		
Rated impulse-withstand voltage U_{imp}	Main contacts	kV				6			
	Auxiliary contacts	kV				6			
Utilization category						A			
Overvoltage category						III			
Pollution category						3			
Protective separation in accordance with EN 61140						Yes (see datasheet)			
Switching capacity in accordance with IEC 60947-2									
I_{cu} / I_{cs} @ 50/60 Hz	240 V	kA	18 / 18	25 / 25	30 / 30	55 / 55	85 / 85	90 / 90	100 / 100
	400/415 V	kA	-	25 / 25	25 / 25	36 / 36	50 / 50	70 / 50	100 / 100
	440 V		-	-	25 / 18.5	30 / 22.5	35 / 35	35 / 35	70 / 35
	525 V	kA	-	-	-	12 / 6	20 / 10	20 / 10	40 / 10
	690 V	kA	-	-	-	8 / 4	10 / 7.5	10 / 7.5	10 / 7.5
	1,000 V	kA	-	-	-	-	-	-	-
I_{cu} / I_{cs} @ DC*	500 V (3P)	kA	-	-	-	-	15 / 15	-	30 / 30
	750 V (3P)	kA	-	-	-	-	-	-	-
I_{cm} @ 50/60 Hz	240 V	kA	36	53	63	121	187	198	220
	400/415 V	kA	-	53	53	76	105	154	220
	440 V	kA	-	-	53	63	74	77	74
	525 V	kA	-	-	-	24	40	44	40
	690 V	kA	-	-	-	14	17	20	17
	1,000 V	kA	-	-	-	-	-	-	-
Switching capacity in accordance with UL 489, CSA 22.2 No. 5-09									
	240 V 60 Hz	kA	-	-	35	-	85	-	-
	480/277 V 60 Hz / 480 V 60 Hz	kA	-	-	25 / -	-	35 / -	-	-
	600/347 V / 600 V 60 Hz	kA	-	-	-	-	-	-	-
Service life (AC-1)									
mechanical	max. 50 % tripping with XA/XU	O-C-O				20000			
electrical 50/60 Hz									
AC-1	415 V				7500			10000	
	690 V		-	-	-	5000		7500	
	1,000 V		-	-	-	-	-	-	-
AC-3 for S, M, MX, PMX	415 V		-	-	-	-	7500	-	7,500
	690 V		-	-	-	-	5000	-	5000
Trip units									
thermo-magnetic TM	-A		✓	✓	✓	✓	✓	✓	✓
electronic (PXR)	-AX (LI)		-	-	-	-	-	-	-
	-VX (LSI)		-	-	-	-	-	-	-
	-VX...-T (LSI-G)		-	-	-	-	-	-	-
	-PX (LSI + energy metering)		-	-	-	-	-	-	-
	-PX...-TZ (LSI-G + energy metering + ZSI)		-	-	-	-	-	-	-
	-PX...-TAZ (LSI-G + energy metering + ZSI + ARMS)		-	-	-	-	-	-	-
For motor protection									
TM	-M		-	-	✓	✓	✓	-	✓
PXR	-MX (LI)		-	-	-	-	-	-	-
PXR	-PMX (LI + energy metering)		-	-	-	-	-	-	-

* The DC values are only valid for thermo-magnetic releases (-A). Additional technical information can be found in the product datasheet on our website.

NZM2

NZM3

NZM4

NZMB2	NZMC2	NZMN2	NZMS2	NZMH2	NZML2	NZMC3	NZMN3	NZMS3	NZMH3	NZML3	NZMN4	NZMH4	NZML4
3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4
		✓					✓					✓	
		✓					✓					✓	
		✓					✓					✓	
		3-pole: 105x184x149 4-pole: 140x184x149					3-pole: 140x275x166 4-pole: 185x275x166					3-pole: 210x401x207 4-pole: 280x401x207	
		✓					✓					✓	
		✓					✓					✓	
		✓					✓					✓	
		Vertical and 90° in all directions					Vertical and 90° in all directions					Vertical and 90° in all directions	
		Vertical and 90° right/left					Vertical and 90° right/left					-	
		Vertical and 90° left					Vertical and 90° left					Vertical	
		20-300 81-196					250-630 196-415					630-1600 544-1600	
-	-	20-250	-	20-250	-		250-500		250-500			-	
440		690					690					690	
-	-	750	-	750			750		750			-	
440		690					690					690	
690		A/M: 1000 AX/VX/MX/PX/PMX: 690					A/M: 1000 AX/VX/MX/PX/PMX: 690					690	
		8					8					8	
		6					6					6	
		A					A					AX, MX, PMX: A VX, PX: B	
		III					III					III	
		3					3					3	
		Yes (see datasheet)					Yes (see datasheet)					Yes (see datasheet)	
30 / 30	55 / 55	85 / 85	100 / 100	150 / 150	150 / 150	55 / 55	85 / 85	100 / 100	150 / 150	150 / 150	50 / 37	125 / 63	125 / 63
25 / 25	36 / 36	50 / 50	70 / 70	150 / 150	150 / 150	36 / 36	50 / 50	70 / 70	150 / 150	150 / 150	50 / 37	85 / 50	100 / 50
25 / 18.5	30 / 22.5	35 / 35	65 / 65	130 / 130	130 / 130	30 / 22.5	35 / 35	65 / 65	130 / 130	130 / 130	35 / 26	85 / 50	85 / 50
-	12 / 6	25 / 25	36 / 36	50 / 37.5	100 / 100	12 / 9	25 / 13	36 / 18	65 / 33	100 / 50	25 / 19	65 / 50	65 / 50
-	8 / 4	20 / 5	20 / 6	20 / 5	80 / 80	8 / 4	20 / 5	25 / 6	35 / 9	80 / 20	20 / 15	50 / 37	50 / 37
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	30 / 7.5	-	60 / 15	-	-	30 / 30	-	70 / 70	-	-	-	-
-	-	30 / 7.5	-	60 / 15	-	-	30 / 30	-	70 / 70	-	-	-	-
63	121	187	220	330	330	121	187	220	330	330	105	275	275
53	76	110	154	330	330	76	105	154	330	330	105	187	220
53	63	77	143	286	286	63	74	143	286	286	74	187	187
-	24	55	80	105	220	24	53	80	143	220	53	143	143
-	14	40	40	40	176	14	40	53	74	176	40	100	105
-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	-	85	-	150	-	-	85	150	-	-	85	125	-
25	-	35 / 35	-	100	-	-	42 / 42	100 / 100	-	-	42 / 42	85 / 85	-
18 / -	-	25 / -	-	50 / -	-	-	35 / 35	50 / 50	-	-	35 / 35	50 / 50	-
		20000					15000			10000		10000	
7500		10000					5000			2000		3000	
-	5000	7500					3000					2000	
-	-	-					-				-	-	-
-	-	6500					2000					2000	
-	-	5000					2000					1000	
✓	✓	✓	✓	✓	-	✓ ≤ 500 A	✓ ≤ 500 A	✓ ≤ 500 A	✓ ≤ 500 A	-	-	-	-
-	-	✓	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓
-	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
-	-	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓
-	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
-	-	✓	✓	✓	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-		✓	✓	✓	-	✓	✓	✓
✓	✓	✓	-	✓	-	-	-	-	-	-	-	-	-
-	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
-	-	✓	-	✓	✓	-	-	-	✓	✓	✓	✓	✓

Product overview – switch-disconnectors

TYPE			PN1/N1	PN2/N2	PN3/N3	N4
						
General information						
Number of poles			3, 4	3, 4	3, 4	3, 4
Degree of protection						
of the device (operating elements)	IP20		✓			
of enclosure and bezel	IP40		✓			
of enclosures with rotary handles	IP66		✓			
Dimensions (WxHxD)		mm	3-pole: 90x145x84.5 4-pole: 120x145x84.5	3-pole: 105x184x149 4-pole: 140x184x149	3-pole: 140x275x166 4-pole: 185x275x166	3-pole: 210x401x207 4-pole: 280x401x207
Ambient temperature	Storage at -40 °C to +70 °C		✓			
	Operation at -25 °C to +70 °C		✓			
Direction of current supply top or bottom			✓			
Mounting positions	In general		Vertical and 90° in all directions			
	with plug-in units		-	Vertical and 90° left	Vertical and 90° right/left	-
	with withdrawable units		-	-	Vertical and 90° left	Vertical
Electrical properties in accordance with IEC 60947-3						
Rated operational current I_n at 40 °C	AC-1	A	max. 160	max. 250	max. 630	max. 1,600
	AC-22A, (AC-23 for (P)N...)	A	max. 160	max. 250	max. 630	max. 1,600
	DC-22A (DC-21A for N…-S15-PV-NA)	A	-	-	-	-
Rated operational voltage U_e	AC 50/60 Hz	V	690	690	690	690
	DC	V	-	-	-	-
For use in unearthed networks		V AC	690	690	690	525
Rated insulation voltage U_i		V	690	690	1,000	1,000
Rated impulse-withstand voltage U_{imp}						
	Main contacts	kV	6	8	8	8
	Auxiliary contacts	kV	6			
Overvoltage category			III			
Pollution category			3			
Safe electrical disconnection in accordance with IEC 60947-3			✓			
Switching capacity in accordance with IEC 60947-3						
Rated short-circuit making capacity	I_{cm}	kA	2.8	5.5	25	53
Rated short-time current	I_{cw}					
	t = 0.3 s	kA	2	3.5	12	25
	t = 1 s	kA	2	3.5	12	25
Rated short-circuit current I_q	With fuse upstream	A gG/gL A gR	PN1(N1)-63…125: 125 PN1(N1)-160: 160	PN2(N2)-160…250: 250	PN3(N3)-400…630: 630	PN4(N4)-630…1600: 2x800
	With fuse upstream	kA	100	100	100	100
	400/415 V	kA	80	80	80	80
	1,000 V	kA	-	-	-	-
	With fuse downstream	A gG/gL A gG/gL	PN1(N1)-63…125: 125 PN1(N1)-160: 160	PN2(N2)-160…250: 250	PN3(N3)-400…630: 630	PN4(N4)-630…1600: 2x800
	400/415 V	kA	100	100	100	100
	690 V	kA	10	80	80	80
Service life						
Mechanical		O-C-O	20000	20000	15000	10000
Maximum operating frequency		Operations / h	120	120	60	60
Electrical 50/60 Hz						
AC-1	415 V		10000	10000	5000	3000
	690 V		7500	7500	5000	2000
	1,000 V		-			
AC-3 ((P)N1: AC23)	415 V		7500	7500	3000	2000
	690 V		5000	5500	2000	1000
DC-22A (DC-21A for N…-S15-PV-NA)						

Additional technical information can be found in the product datasheet on our website.

N2...–DC...	N3...–DC...	N4...–DC...	N4...–PV-NA
			
4	4	4	4
✓			
✓			
✓			
140x184x149	185x275x166	280x401x207	
✓			
✓			
✓			
Vertical and 90° in all directions			
-			
-			
-			
-			
250	550	1,600	1,200
N...-S1-DC: 1,000 N...-S15-DC: 1,500	N...-S1-DC: 1,000 N...-S15-DC: 1,500	N...-S1-DC: 1,000 N...-S15-DC: 1,500	N...-S1-DC: 1,000 N...-S15-DC: 1,500
N...-S1-DC: 1,000 N...-S15-DC: 1,500	N...-S1-DC: 1,000 N...-S15-DC: 1,500	N...-S1-DC: 1,000 N...-S15-DC: 1,500	N...-S1-DC: 1,000 N...-S15-DC: 1,500
N...-S1-DC: 1,250 N...-S15-DC: 1,500	N...-S1-DC: 1,250 N...-S15-DC: 1,500	N...-S1-DC: 1,250 N...-S15-DC: 1,500	N...-S1-DC: 1,250 N...-S15-DC: 1,500
N...-S1-DC: 8 N...-S15-DC: 10	N...-S1-DC: 8 N...-S15-DC: 10	N...-S1-DC: 8 N...-S15-DC: 10	N...-S1-PV-NA: 8 N...-S15-PVNA: 10
6			
III			
N...-S1-DC: 3 N...-S15-DC: 2	N...-S1-DC: 3 N...-S15-DC: 2	3	3
✓			
-			
-			
3.6	6.6	34 (0.1 s)	34 (0.1 s)
A gR/gPV 200	A gR/gPV 2x250	-	-
-			
-			
15	15	-	-
-			
-			
-			
20000	15000	10000	10000
120	60	60	60
-			
-			
-			
-			
-			
1000	1000	500	500

NS...-...NA				NS1-...-NA	NS2-...-NA	NS3-...-NA	NS4-...-NA
							
Circuit breaker				**max. 125 A**	**max. 250 A**	**max. 600 A**	**max. 1,200 A**
Rated peak-withstand current		U_{imp}					
Main circuits			V	6000	8000	8000	8000
Auxiliary circuits			V	6000	6000	6000	6000
Rated operational voltage		U_e	V AC	690	690	690	690
Max. rated uninterrupted current							
IEC/EN 60947-2 Annex L		I_n	A	125	250	600	1200
UL489/CSA 22.2 No. 5.1		I_n	A	125	250	600	1200
Overvoltage category/degree of pollution				III/3	III/3	III/3	III/3
Rated insulation voltage		U_i	V	690	1000	1000	1000
Switching capacity in accordance with UL 489, CSA 22.2 No. 5.1							
	240 V 60 Hz		kA	85	150	150	85
	480 V 60 Hz		kA	35	100	100	65
	600 V 60 Hz		kA	-	50	50	42
Products intended for the North American market have a different switching capacity							
Rated short-circuit making capacity	240 V 50/60 Hz	I_{cm}	kA	187	330	330	187
	400/415 V 50/60 Hz	I_{cm}		105	330	330	154
	440 V 50/60 Hz	I_{cm}	kA	74	286	286	143
	525 V 50/60 Hz	I_{cm}	kA	53	105	143	84
	690 V 50/60 Hz	I_{cm}	kA	17	53	74	74
Rated short-circuit breaking capacity $I_{cc} = I_{cu}$ in accordance with IEC/EN 60947-2 Annex L							
I_{cu} to IEC/EN 60947, switching sequence O-t-CO	240 V 50/60 Hz	I_{cm}	kA	85	150	150	85
	400/415 V 50/60 Hz	I_{cm}	kA	50	150	150	70
	440 V 50/60 Hz	I_{cm}		35	130	130	65
	525 V 50/60 Hz	I_{cm}	kA	20	50	85	40
	690 V 50/60 Hz	I_{cm}	kA	10	20	35	35
I_{cu} to IEC/EN 60947, switching sequence O-t-CO-t-CO	240 V 50/60 Hz	I_{cm}	kA	85	150	150	43
	400/415 V 50/60 Hz	I_{cm}	kA	50	150	150	35
	440 V 50/60 Hz	I_{cm}	kA	35	130	130	33
	525 V 50/60 Hz	I_{cm}	kA	10	37.5	33	20
	690 V 50/60 Hz	I_{cm}	kA	7.5	5	9	18
Service life, mechanical (of which max. 50 % is tripped by the shunt/undervoltage release)		Switching operations		20000	20000	15000	10000
Maximum operating frequency		ops./h		120	120	60	60
Service life, electrical							
AC-1	400/415 V 50/60 Hz	Switching operations		10000	10000	5000	3000
	690 V 50/60 Hz	Switching operations		7500	7500	3000	2000
Total downtime in the event of a short circuit		ms		< 10	< 10	< 10	< 25 ≦ 415 V < 35 > 415 V

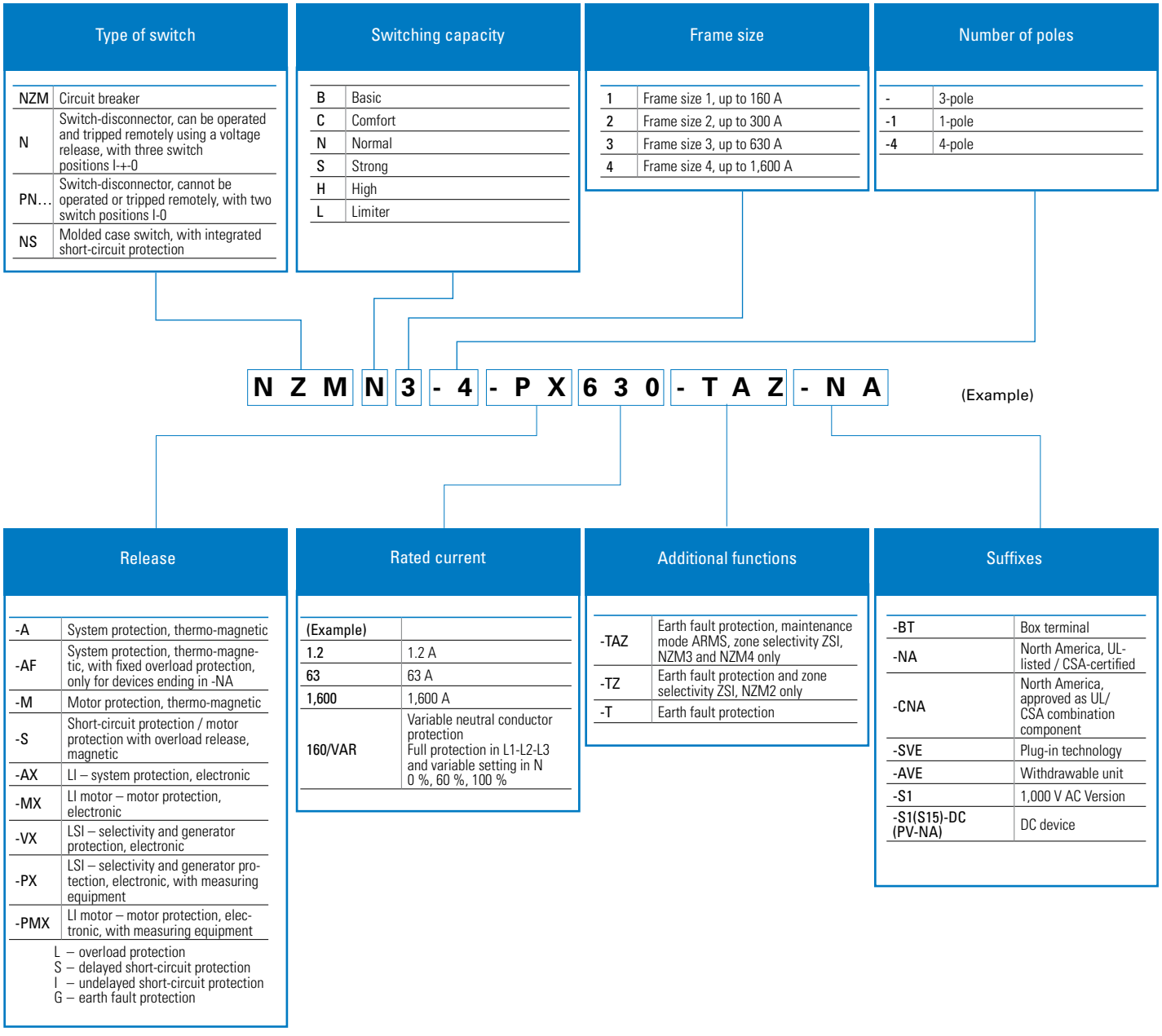
Additional technical information can be found in the product datasheet on our website.

Accessories

TYPE		NZM1 		NZM2 		NZM3 		NZM4 
Internal accessories		NZM1... / N...	PN...	NZM2.../ N....	PN...	NZM3.../N....	PN...	NZM4... / N...
Auxiliary contacts	M22-(C)K...	✓	✓	✓	✓	✓	✓	✓
Trip-indicating auxiliary contacts	M22-(C)K...	✓	✓	✓	✓	✓	✓	✓
Early-make auxiliary contacts	NZM...XHIV...	✓	✓	✓	✓	✓	✓	✓
Undervoltage releases	NZM...-XU...	✓	-	✓	-	✓	-	✓
Undervoltage releases with relay module	NZM...-XU...2A...	-	-	✓ (PXR)	-	✓ (PXR)	-	✓ (PXR)
Shunt releases	NZM...-XA...	✓	-	✓	-	✓	-	✓
Shunt releases with relay module	NZM...-XA...2A...	-	-	✓ (PXR)	-	✓ (PXR)	-	✓ (PXR)
Interface Module	NZM...-XBSM	-	-	✓ (PXR)	-	✓ (PXR)	-	✓ (PXR)
External accessories								
Actuator								
with thumb grip		✓	✓	✓	✓	✓	✓	✓
Rotary handle, direct	NZM...XDV...	✓	✓	✓	✓	✓	✓	✓
Rotary handle with shaft extension	NZM...XTVD...	✓	✓	✓	✓	✓	✓	✓
Rotary handle, lateral	NZM...XS	✓	✓	✓	✓	✓	✓	✓
Rotary handle with side lever (UL/CSA)	NZM...SXH	-	-	✓	✓	✓	✓	✓
Rotary handle, at the rear	NZM...SXH	✓	✓	✓	✓	-	-	-
Remote operator (electrical)	NZM...XR...	-	-	✓	✓	✓	✓	✓
Residual-current protection								
Residual-current circuit breaker – mountable	NZM...XFI	✓	✓	✓	✓	-	-	-
Ground fault relay – cannot be mounted directly	ELR...	✓	✓	✓	✓	✓	✓	✓
Type of installation								
Fixed	NZM...	✓	✓	✓	✓	✓	✓	✓
Plug-in units	NZM...-SVE	✓	-	✓	-	✓	-	-
Withdrawable units	NZM...-AV	-	-	-	-	✓	-	✓
Covers								
Cable lug cover	NZM...XKSAE	-	-	✓	✓	✓	✓	-
Terminal cover	NZM...XKSA...	✓	✓	✓	✓	✓	✓	✓
Phase isolator	NZM...XKP...	✓	✓	✓	✓	✓	✓	✓
Terminal cover	NZM...XKSFA...	✓	✓	✓	✓	✓	✓	-
Finger guard	NZM...XIPK...	✓	✓	✓	✓	✓	✓	-
Terminal type								
Screw-in/direct connection	NZM...XKS...	✓	✓	✓	✓	✓	✓	✓
Box terminal	NZM...XKC...	✓	✓	✓	✓	✓	✓	-
Connection at rear	NZM...XKR...	✓	✓	✓	✓	✓	✓	✓
Tunnel terminal	NZM...XKA...	✓	✓	✓	✓	✓	✓	✓
Control-circuit terminal	NZM...XST...	✓	✓	✓	✓	✓	✓	✓
Connection expansion	NZM...XKV...	-	-	-	-	✓	✓	✓
Module plate	NZM...XKM...	-	-	-	-	-	-	✓

Additional technical information can be found in the product datasheet on our website.

Type design of the basic devices



Conformity to standards

Circuit breakers for global use

All circuit breakers meet the requirements for global use. This also applies to the United States, Canada and the Chinese market, with UL, CSA and CCC (China Compulsory Certification) certifications.

In cooperation with the ship classification societies, Eaton is carrying out a series of tests in order to receive the following approvals: Lloyds Register of Shipping, Bureau Veritas, Det Norske Veritas, Polski Rejestr Statkow, China Classification Society, Germanischer Lloyd and Russian Maritime Register of Shipping.

System and cable protection

Across all levels

The NZM circuit breakers protect entire systems and cables across all levels, from the main distribution board all the way to the load itself.
Based on your requirements, you can choose between the Thermo-Magnetic version for standard applications and the Electronic Trip Unit version with a wider setting range as well as diagnostic and test functions via USB.

The Thermo-Magnetic version for system and cable protection features a robust design and a bimetallic strip release that ensures overload protection for the setting range of I_r = 0.8 to 1 x I_n.
The magnetic release has a setting range of 6 to 10 x I_n.
In the Electronic Trip Unit version, the setting range of the overload has been extended to I_r = 0.4 to 1 x I_n.
This means, for example, that a 250 A circuit breaker can safely operate rated operational currents down to 100 A.

This provides enhanced flexibility when it comes to selection and planning. The circuit breakers for system and cable protection can also be tested via the integrated micro-USB interface, using the Power Xpert Protection Manager (PXPM) software.
Thanks to the integrated test protocol function, a report in PDF format can be easily generated.

Protection of motors and motor-starter combinations

in case of overload and short circuit events

With a range of 16 A to 1,400 A, the NZM circuit breakers provide reliable protection for motors and input wiring in the event of overloads, short circuits and phase failure. To prevent the protective device from switching off during start-up peaks, the short-circuit releases can be set at up to 18 times the rated current. The extended setting range even protects energy-efficient motors with high starting currents.

The NZM motor-protective circuit breakers meet the requirements for tripping characteristics outlined in IEC/EN 60947-4-1 as well as the associated requirements for phase-failure sensitivity and phase-failure protection.

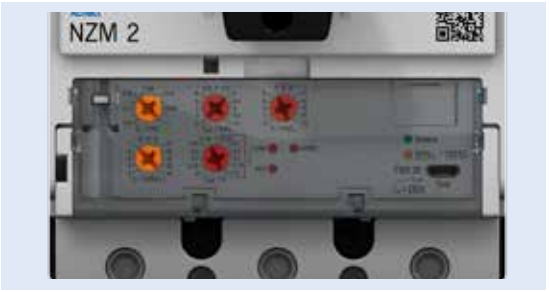
Motor-starter combinations can be controlled via the communication connection and the relay module (also in conjunction with an undervoltage release, for example). DOL starters, reversing starters and circuits with heavy starting duty can all be implemented. The contactor coils can either be automatically controlled directly from the NZM, or manually via the communication connection.

In the event of an overload, the relay module offers a sophisticated option for contactor release prior to the tripping of the NZM. As a result, temporary overloads of 110 % of I_n can be switched off and then automatically back on again without any need to trip or reset the NZM. Alternatively, the device can also be set to issue an alert only.

The devices intended for motor protection are all IE3/IE4-compatible, to prevent undesired tripping in energy-efficient motors. The new electronic releases have been further optimized for applications with high in-rush currents.

Full-range protection

For system protection, cable protection, selectivity and generator protection



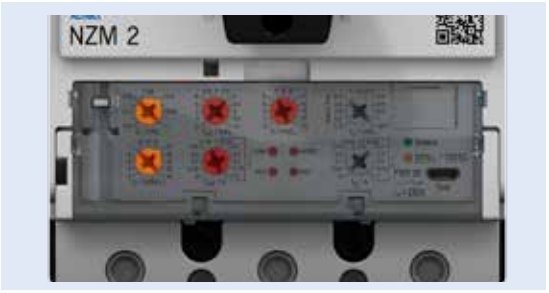
As an incoming circuit breaker, the NZM naturally also offers overload protection on the secondary side of the transformer. A version with time-delayed short-circuit releases is also available, to ensure the selectivity of the mains connection. This option is especially suitable if power is supplied via a transformer or a generator, and in IT and TN networks with long cables.

You can fully rely on the NZM circuit breakers, even if the generators struggle to produce between two and six times the continuous current in the event of a short circuit. The NZM will safely switch off even very low short-circuit currents within just a few milliseconds. If special tasks require it, the circuit breakers can be set so that short-circuit currents up to 10 times the rated current will be ignored for up to one second.

Thanks to the extended setting range of the full-range release, the devices can be optimally adapted to any application. Whether it is generator protection, the support of extremely long outputs with low short-circuit currents, or the protection of transformers in case of very high in-rush currents, the NZM circuit breaker can do it all.

Earth fault protection

With current-dependent short-time delay



Residual currents to earth are detected based on the core-balance principle by means of the integrated converters. The circuit breaker will trip or issue an alert in line with the selected settings, and the setting range can be set at 20 % to 100 % of the rated operational current. It is possible to delay the tripping by up to one second.

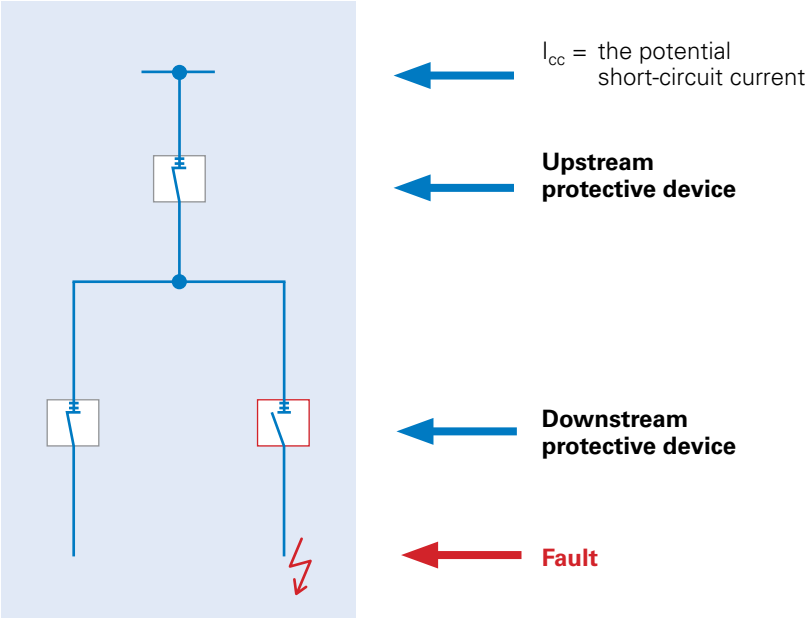
Selectivity and backup protection

For maximum supply security

Selective overload and short-circuit protection
A combination of two or more short-circuit protection devices (such as circuit breakers or fuses) is selective when only the device closest to the fault detects and interrupts the fault current and the upstream breaker(s) do not trip.

This ensures that branches of the distribution not affected by the fault will continue operation. The NZM circuit breakers are able to achieve selectivity even without the addition of any electronic short-time delay devices.

Selectivity viewed schematically



Backup protection against excessive short-circuit currents
Backup protection is provided if the upstream protective device is able to protect the downstream protective device against excessive short-circuit currents. If the short-circuit current exceeds the short-circuit capacity I_{cu} of the downstream circuit breaker, the upstream circuit breaker will limit the current flow to ensure optimum protection of the system.

NZM frame sizes 1, 2 and 3 have a current-limiting effect. The take-over current I_B of the upstream circuit breaker, i.e. the current at which the latter trips, must not be greater than the I_{cu} of the downstream circuit breaker.
This ensures backup protection against all potential short-circuit currents.

Detailed information on selectivity and backup protection can be found in Eaton's "Selectivity, Backup Protection and Coordination Guide".

Zone selectivity and ARMS maintenance mode

Precise disconnection of faults upstream from their location and protection against arc faults

Zone selectivity
Zone selectivity is the next stage in the concept of time selectivity. In contrast to time selectivity, any faults will be switched off instantaneously and at any point in the network. This keeps the energy that is being generated ($I^2 \times t$) – and thus the thermal and dynamic system load – as low as possible.
For this purpose, the circuit breakers are connected to a signal cable. In the event of a fault, the signal cable ensures that only the circuit breaker located directly upstream of the fault (i.e. the circuit breaker that feeds into the short circuit) switches off immediately. This keeps that part of the system that has not been affected by the fault operational and thereby minimizes downtime.

ARMS – Arcflash Reduction Maintenance System
Our circuit breakers can be optionally equipped with our new, patented Arcflash Reduction Maintenance System. In the event of an arc fault, this system ensures an immediate and accelerated shutdown.

The disconnection is even faster than that effected by a non-delayed short-circuit release. This feature can either be activated directly at the circuit breaker or via an external switch, for example when maintenance personnel enter a hazardous area. No special wiring is required.

More safety when working on live electrical circuits

Safety is Eaton's top priority. Therefore, we offer additional safety functions that go beyond the standard requirements. In this white paper you can find out what advantages this has for users.

Residual-current protection

For universal mounting, or for mounting directly on the circuit breaker

For universal mounting

Eaton's new relay/transformer combinations cover operating currents from 1 A to 1,800 A. The wide range of applications extends from general power distribution systems to individual motor feeders. The relay can detect and process residual currents between 30 mA and 5 A.

The scope of application of the individual relay/transformer combinations depends on the applicable regulations, and ranges from personnel and fire protection to general power protection for 1 to 4-pole networks.

Compact, safe, versatile...

... these are the qualities required of residual-current protection devices, especially in areas – such as installation boards – where space is limited.
The measuring relay can be snapped onto a DIN rail as required. It forms a functional unit with the ring-type transformers, which are arranged along the power chain to save space.

For direct mounting on the circuit breaker

The residual-current release modules can be mounted flush with the bases of the NZM1 and NZM2 circuit breakers (in the case of the NZM1 also on the right). Eaton thus offers a compact product that is easy to install without the need for external auxiliary voltage.
The residual-current protection module of the NZM2 is fully independent of the mains voltage and can therefore be used for the purposes of personnel protection in Germany.
Both pulse-current and AC/DC-sensitive devices are available. For virtually any mains constellation, 3 and 4-pole versions are possible, with different rated residual currents ranging from 30 mA to 3 A (with time selectivity).

Protection of DC applications

For use as circuit breakers or switch-disconnectors

Circuit breakers DC applications
The NZM circuit breakers with thermo-magnetic releases can be used for DC applications. However, using the circuit breakers in DC environments alters their technical characteristics. As a result, the threshold value of the short-circuit release has to be adjusted. In addition, the short-circuit breaking capacity will also be affected.

The NZM...-S07-DC circuit breaker has been designed specifically for use in battery applications. As such, the threshold value of the short-circuit release is set especially low to ensure reliable control of the low short-circuit currents in the battery banks.

Switch-disconnectors for DC applications
Our powerful range of switch-disconnectors for DC use comprises three frame sizes, from 160 A to 1,600 A, for applications with 1,000 V DC or 1,500 V DC. The devices are IEC 60947-3 and UL489B approved and can therefore be used worldwide. Together with the wide and versatile range of NZM accessories, the DC switch-disconnectors are the ideal choice for demanding DC applications, including (but not limited to) central inverters used in renewable energy systems.

The tested combination of switch-disconnector and 1 or 2-pole link set is especially powerful, and the perfect option for every type of connection situation and for environments with high ambient temperatures. Eaton can guarantee reliable derating values up to 70 °C. The DC switch-disconnectors can also be used without restriction in unearthed IT networks, provided the error case of a double earth fault can be ruled out by means of technical measures.

Protection for special applications

With high power density

Circuit breakers with high switching capacity at 690 V AC
The NZML2 and NZML3 circuit breakers complement the globally recognized NZM family and complete Eaton's offering for systems with high power density. High switching capacities at 690 V AC are not only required in mining, marine applications or the chemical industry; the new products have also been designed with renewable energy systems such as wind turbines in mind.

Our product portfolio covers virtually any demand: The NZML2 is available with up to 160 A, while the NZML3 covers the range up to 400 A. Both devices come with integrated electronic trip units. They offer a switching capacity of 80 kA at 690 V AC. The devices have been equipped with a communications interface and come in the same dimensions as our proven NZM2 and NZM3 circuit breakers. Users of the NZML series have the full range of NZM accessories at their disposal.

Main fields of application:

- Mining
- Shipbuilding
- Industrial applications
- Wind turbines
- Data centers

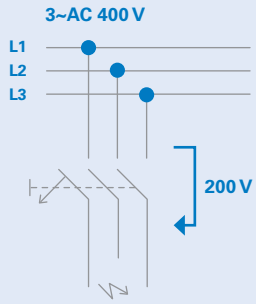
You can find more information in the Eaton brochure "The circuit breaker series NZML2 and NZML3 for high breaking capacities at 690 V."

Using the NZM circuit breakers at 1,000 V AC
With the tailor-made models for rated operational voltages up to 1,000 V AC, we have further expanded the scope of application of our NZM circuit breakers and switch-disconnectors. These devices are particularly suitable for use in challenging environmental conditions, notably in the areas of mining, road tunnels, refineries, chemical plants and electric railways. Typical applications include high-power drives and general power supply systems for industrial applications with long supply lines.

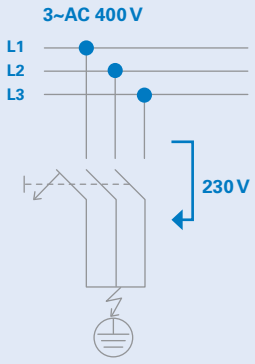
Using the NZM circuit breakers in IT networks

All NZM circuit breakers can be used in unearthed IT networks, unless otherwise indicated. The following must be observed during project planning:

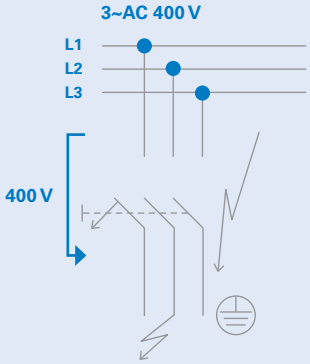
1. Faults between the phases



2. Earth fault (simple fault)



3. Earth fault (double fault)



Why do I have to assume that the voltage in the IT system is √3 times the mains voltage?

Behavior in TN and TT systems
For circuit breakers in TN and TT systems, the three-phase short circuit to earth is the short circuit with the highest load. To determine the voltage present at each contact, the mains voltage has to be divided by √3.

Example:
In a TN-S system with 400 V AC, each circuit breaker contact switches only 230 V AC in the event of a three-phase short circuit to earth.
(400 V / 1.73).

Short circuit in the IT system
Short circuits between the phases are also possible in IT systems. In this case, however, the short circuit will be disconnected by two separate contacts inside the circuit breaker, so that each contact only has to switch off half the mains voltage (as illustrated in figure 1, each contact should switch 200 V AC). The short circuit between two phases represents a lower load for the circuit breaker than the three-phase short circuit to earth.

Double earth faults in IT systems
In IT systems, double earth faults are the short circuits with the highest possible loads. When planning for short circuits, it should always be assumed that a double earth fault will be present; this is also explicitly pointed out in IEC/EN 60947-2, Annex H. In case of a double earth fault, the full mains voltage will be applied to the circuit breaker contact in question (see figure 3 on the left). In this case, one contact alone has to switch off the entire chained voltage (mains voltage). Since the chained voltage is √3 times (1.73) the voltage to earth, the short-circuit breaking capacity in the IT network should be planned for as √3 the mains voltage.

Technical safety parameters
The NZM circuit breakers can be used in conjunction with undervoltage releases in order to calculate the safety-related parameters (e.g. $B10_d$ or $MTTF_d$). Detailed information can be found here:

Technical safety parameters
www.eaton.eu/safety

Energy metering with the digital NZM

Measurement data for ISO 50001
With Class 1 energy-metering accuracy in accordance with IEC 61557-12

Greater efficiency with ISO 50001
The EN ISO 50001 standard was defined at the international level to facilitate the implementation of in-house energy management systems. The most important aim of the standard is the sustainable reduction of energy costs, energy consumption and CO_2 emissions by means of organizational and technical changes. Both for globally connected companies and for small and medium-sized businesses, sound energy management can lead to enhanced cost transparency and cost savings, while also contributing to the protection of natural resources and to a better corporate image. Especially for power-intensive companies whose consumption exceeds 10 GWh, or whose electricity costs account for more than 14 % of the value added, the German Renewable Energy Sources Act harbors enormous cost reduction potentials in the form of lower energy taxes.

The importance of accurate metrics and analytics
Prerequisites for introducing an energy management system in accordance with ISO 50001 are accurate energy metrics, the identification of the main energy consumers and a full analysis of the company's energy costs. This creates a sound foundation for realizing concrete energy-efficiency improvements. Eaton offers a broad range of innovative products for monitoring, measuring and analyzing energy data.

ISO 50003 – new as of October 2017
Since October 2017, new energy-efficiency requirements have been in place following the publication of the ISO 50003 standard. From now on, companies with certified energy management systems will have to provide hard data to prove the energy-efficiency gains they have realized. With our innovative energy metering technology, we are able to support you in meeting the stricter certification criteria.

Product cost efficiency through precise measurement
To compete in today's markets, cost-optimized products must be manufactured. By measuring the energy requirements of production machines, the energy costs incurred for the production of the individual product can be precisely calculated. The more precise the measurement, the more precise the calculation of the proportional energy costs of the individual product. Especially when large production volumes and short cycle times come together, a very precise measurement is profitable, as incorrect values will otherwise falsify the cost calculation.

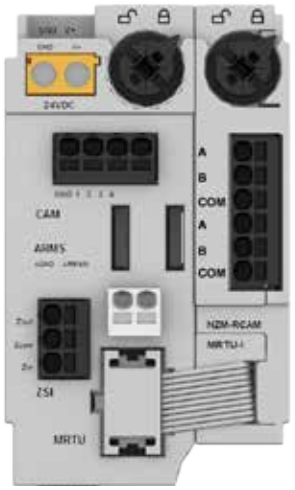
Communications

Effective energy management systems

Saving space – quick and safe connection
With the integrated Modbus RTU module, you will save space inside the control panel. In addition, the process of planning your system is now more flexible and cost-effective thanks to the modular interface module. This reduces the time and effort required for installation as well as the overall size of the control cabinet. The handling of the devices has also been simplified thanks to the new push-in terminals. This not only reduces the likelihood of errors, but also simplifies preparation and wiring and ensures that your installation concept meets the highest safety requirements.

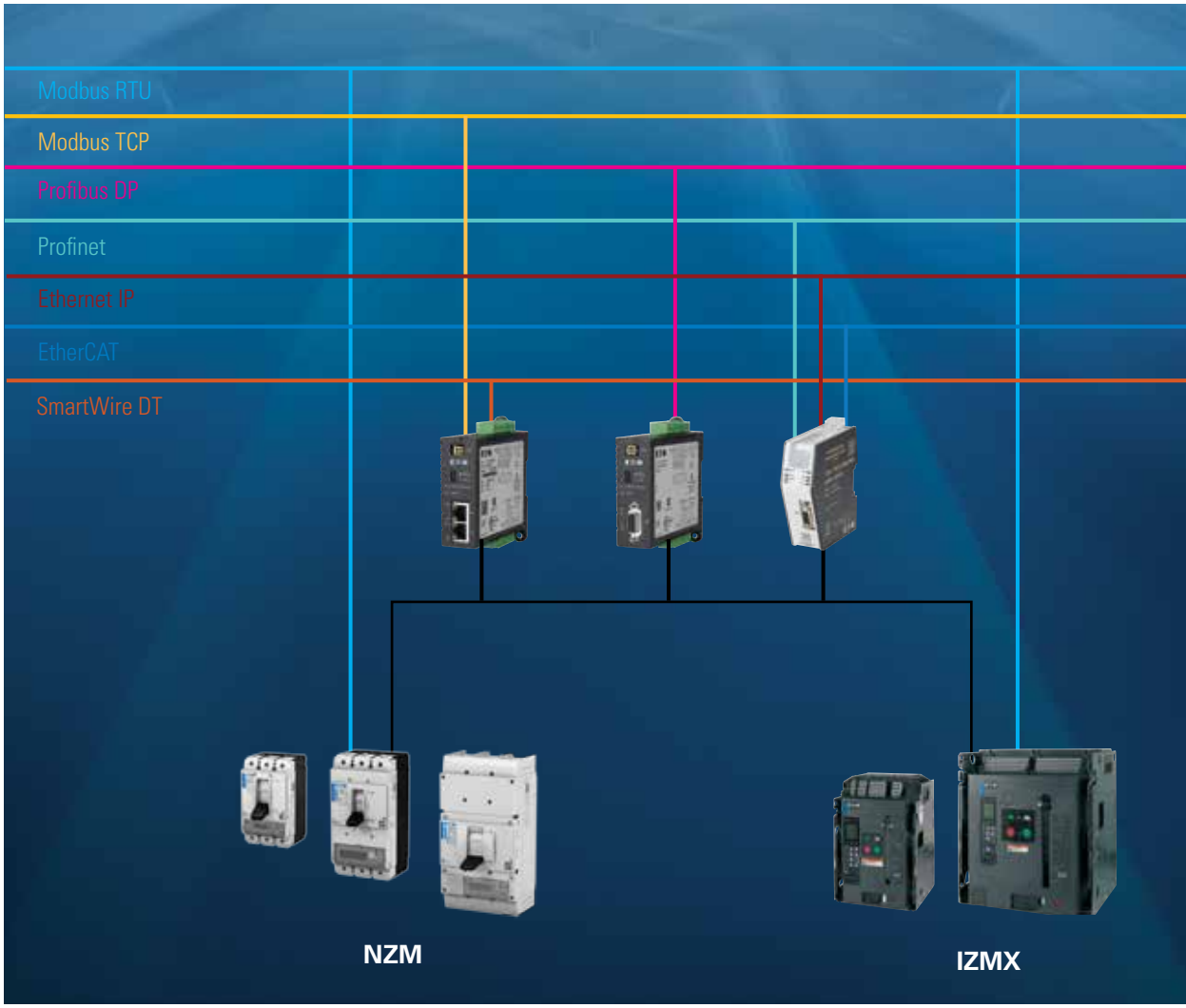
Centralized data collection – integration into existing systems
Eaton's centralized data collection system consolidates the operating data of the entire system to ensure their rapid transmission.
The operating data are collected in a uniform format by all IZMX air circuit breakers, all NZM compact circuit breakers and all other PXR modules. For you, this means that the amount of programming work required across the system will be much lower.
In addition, the CAM module simplifies the integration of existing communications systems, such as Profibus DP, ProfiNet or Modbus TCP. Eaton has thus made it much easier to connect your existing architecture.

Full access at all times – conveniently with remote control
Via the integrated communications of the PXR and additional modules, such as a remote operator, motor-starter combinations etc., you will have full access to the circuit breaker at all times. The remote operator can be conveniently controlled via the communication connection in combination with the relay module. The relays can also be used to control other devices, e.g. automatic contactor releases at low overloads. You will thus benefit from a significant increase in security while saving time.



Everything at a glance

With the new, integrated communications platform



Reliable and efficient data collection, with Eaton's PXR circuit breakers and measurement and communication modules. Providing users with data in the required form and data format is a challenge, not least given the many different types of communications architectures used in industry today.

Eaton has answered this challenge by creating a variable topology of measuring points in order to meet the demands of users. Eaton offers a comprehensive range of communication interfaces to meet the demands of the market. Based on this structure, the data can be transferred to other communication platforms via various interfaces and gateways as required.

Features and measurement values of the PXR variants

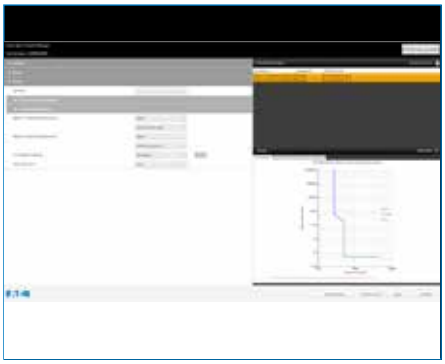
	NZM...-AX...	NZM...-VX/MX...	NZM...-PX/PMX...
Power Xpert Release version	PXR10	PXR20	PXR25
Connectivity			
Test option / PXPM connection via USB	✓	✓	✓
Interface module with CAM connection	-	optional	✓
Internal Modbus RTU module	-	optional	optional
Relay module	-	optional	optional
Provision of the measured data			
Current			
In real time, value per phase and neutral conductor	✓	✓	✓
Average	✓	✓	✓
Asymmetry in %	✓	✓	✓
Min/max	✓	✓	✓
Voltage			
In real time, phase-phase / phase-neutral	-	-	✓
Asymmetry in %	-	-	✓
Min/max	-	-	✓
Frequency			
In real time	-	-	✓
Min/max	-	-	✓
Real/apparent/reactive energy Class 1			
Total	-	-	✓
Forward	-	-	✓
Backward	-	-	✓
Net	-	-	✓
Real/apparent/reactive energy Class 1			
In real time	-	-	✓
Min/max	-	-	✓
Power factor	-	-	✓
Maintenance information and notifications			
Service life indicator	-	-	✓
LED display	status, alert	status, alert, trip reason	status
LCD display	-	-	settings, alert, trip reason
Safety-related functions			
ARMS maintenance mode	-	-	optional
ZSI zone-selective interlocking	-	-	optional
Thermal memory	✓	✓	✓
Ambient temperature compensation	✓	✓	✓

The universal PXPM software

One program for all Eaton devices with PXR electronics

Power Xpert Protection Manager

With the new PXPM software, Eaton has developed a universal program that will allow you to conveniently manage all Eaton PXR devices.



Main features:

- Configuration and settings
- Retrieval and evaluation of data
- Test function

With the PXR technology, configuring, controlling, protecting and testing the system architecture of your Eaton devices is easier than ever before, thanks to the Power Xpert Protection Manager. It is no longer necessary to manually identify the various devices, as the program automatically adapts to each. Guided and drop-down menus ensure that the configuration process is as user-friendly as possible. And the recorded data are always clearly displayed via a single screen.

The PXPM software speaks your language: Eaton provides you with a wide range of language packs; the system can either recognize the language of your computer automatically, or you can set it manually.

A wide selection of additional options allows you to select application-specific settings exactly as required:

- The protective function can be adapted and controlled via the display and by configuring the trip type.
- The waveforms of both current and voltage can be automatically captured and displayed before and after tripping, or manually via the "waveform capture" function.

Eaton software for a broad range of tasks

Configuration, project planning, visualization and much more

xEnergy configurator

The circuit breaker configurator is part of the xEnergy Configurator, and supports users in correctly configuring and ordering their Eaton products:

- Easy to operate
- Support of error-free selection and ordering of compact and open circuit breakers (NZM / IZMX)

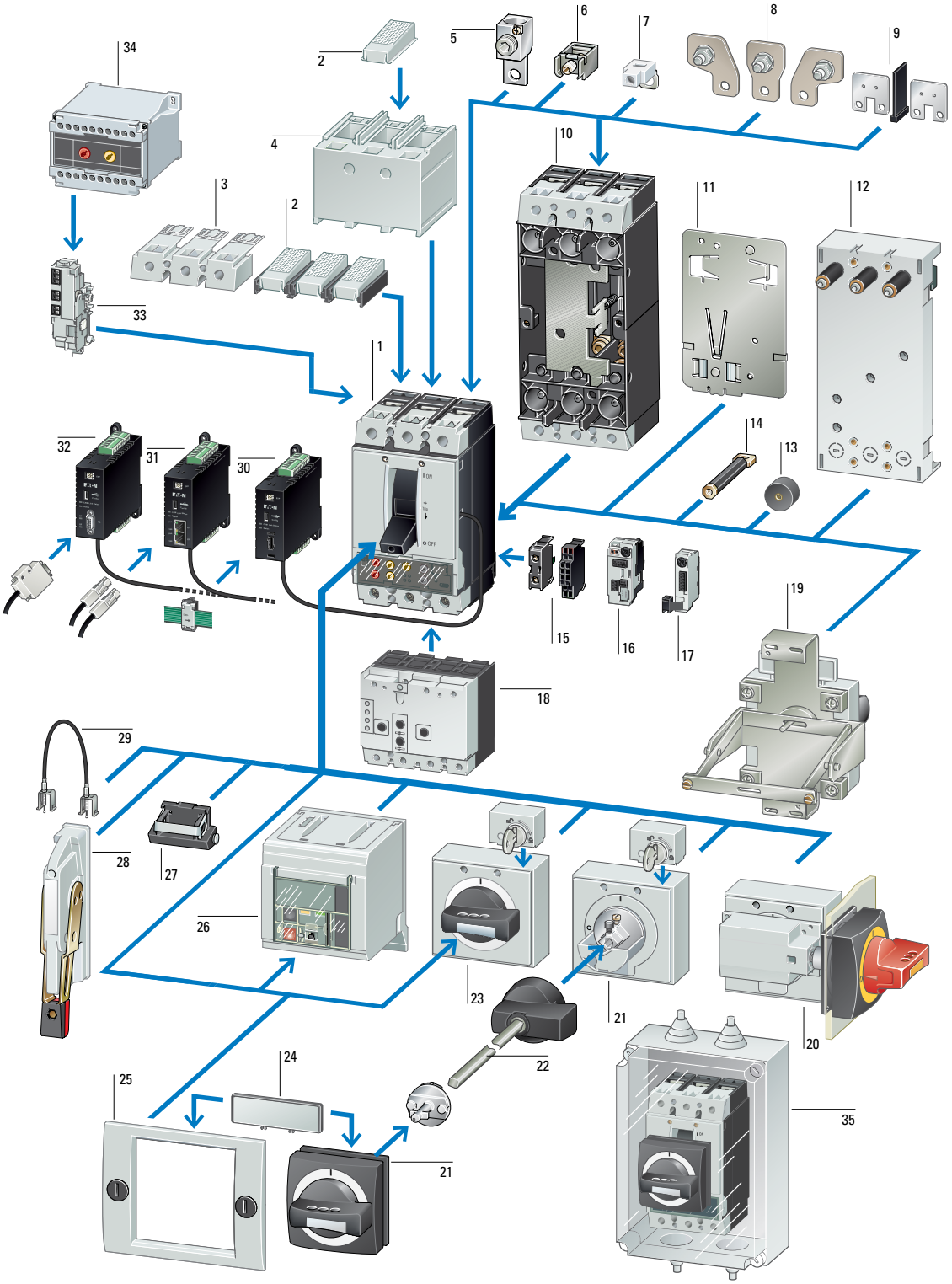
xSpider

xSpider is the next generation of software for the sizing and planning of low-voltage networks. It supports the design, selection and optimal configuration of the requisite switchgear. The graphic-oriented drafting software is easy to use and the corresponding database contains all relevant Eaton devices. The ability to select a circuit breaker based on the network diagram, and to examine the tripping characteristic directly, allows for a quick assessment of the selectivity and the required backup fuse. The integrated ArcRisk module, which is currently unique on the market, offers a quick and clear assessment of the arc fault risk in the planned low-voltage switchgear assembly.

Product groups

System overview – circuit breakers / switch-disconnectors

Benefit from our portfolio of integrated accessories
Assembly and function are identical for all accessories, independent of frame size. For example, the contact elements from the RMQ-Titan® range of control devices are used for the entire series of NZM circuit breakers. This reduces the number of separate product groups while simplifying the processes related to ordering and storage. The contact elements can simply be snapped on at the front.
The position determines the function: signaling contact or trip-indicating auxiliary contact. Shunt or undervoltage releases, which can also be combined with early-make auxiliary contacts (e.g. for interlocking or load-shedding circuits), offer a sophisticated approach to a wide range of applications.



1 Switch-disconnector; circuit breaker; circuit breaker for North America; molded case switches for North America
2 IP2X protection against finger-contact
3 Terminal cover, knockout
4 Terminal cover
5 Tunnel terminals
6 Box terminals
7 Control circuit terminal
8 Connection width extension
9 Link kit
10 Plug-in and withdrawable unit
11 Adapter plate
12 Busbar adapter
13 Spacer
14 Connection on rear
15 Standard auxiliary contacts, trip-indicating auxiliary switches
16 BSM interface module
17 Interface communication module for Modbus RTU
18 Residual-current protection device
19 Rear operator
20 Main switch rotary handle for side panel mounting
21 Door coupling rotary handle
22 Extension shaft
23 Rotary handle
24 External warning plate/marking plate
25 Insulating surround
26 Remote operator
27 Toggle lever interlock device
28 Side operator handle
29 Mechanical interlock
30 Communication module for SmartWire-DT
31 Communication module for Profibus DP
32 Communication module for Ethernet-based protocols
33 Voltage release/early-make auxiliary contact
34 Delay unit for undervoltage releases
35 Ci insulated enclosure

Terminal types

The matching accessories for versatile applications

The terminal technology of the NZM circuit breakers enables you to address the specific requirements of your system in a flexible manner. Whether it is copper cables from 6 mm² to 300 mm² or aluminum cables, copper strips or copper bars – the NZM has the right solution for every type of connection. On the NZM2 and NZM3, for example, the box terminal can be opened upwards to simply swivel in the conductors. An IP20 (finger-safe) degree of protection can be achieved by means of accessories.

The heads of all the screws used in the circuit breakers, with the exception of the main terminal screws, have a plus-minus profile. This has the advantage that fast machine screwdrivers with standardized Pozidriv 2 drill bits can be used. Alternatively, a standard flat-bladed screwdriver may also be used. This applies to all fixing screws, auxiliary conductor terminals, flaps and covers as well as to all adjustment knobs.

Like the Pozidriv cross slot, the plus-minus slot can transmit a higher torque, which also makes it easier to center the tool while exerting less surface pressure. In addition, the plus-minus slot can be used for different types of tools and is particularly suitable for devices that require frequent maintenance.

1 Enhanced connectivity
The NZM circuit breakers and the PN and N switch-disconnectors can be connected by means of round conductors with or without cable lug, or by using laminated copper strips or copper bars. Another special feature: A narrow version of the cable lug is available to facilitate the connection of thick round conductors up to 300 mm².

2 Screw terminal
Screw terminals are an inexpensive option for connecting cable lugs, perforated strips or copper bars. Our product portfolio of switchgear accessories also includes the matching cable lugs.
Furthermore, a stud version is offered which allows the simplest mounting of the cable lugs.

3 Box terminal for copper cable
If one or two flexible copper conductors or strips are to be directly connected, the box terminal ensures that the contact is safe. On the NZM2 and NZM3, the box terminal can be opened upwards for easy insertion of thick and rigid conductors, which makes connection particularly easy.

Back-of-hand and finger protection

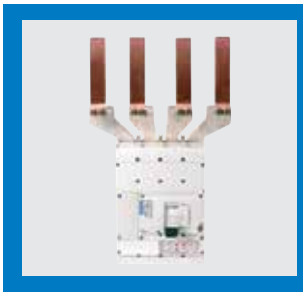
Back-of-hand protection for cable lugs, box terminals or tunnel terminals can also be achieved by means of covers. IP2X finger protection, as required for main switches in accordance with IEC/EN 60204-1, can be quickly and easily implemented. The additional covers can be adapted to any cross section.

Control-circuit terminals

The control-circuit terminals are simply screwed on below the respective connection type. This makes it possible to quickly set up the taps for voltmeters, control transformers, undervoltage releases etc.

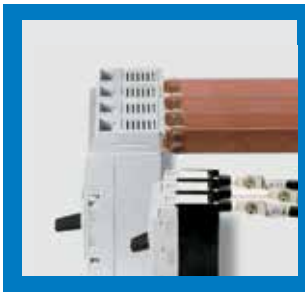
4 Tunnel terminal for aluminum and copper cables

The connection space of this special, tin-plated aluminum terminal is tunnel-shaped to reliably prevent the typical "flow behavior" of aluminum under high pressure. Depending on the model, up to six aluminum or copper conductors can be connected per phase.



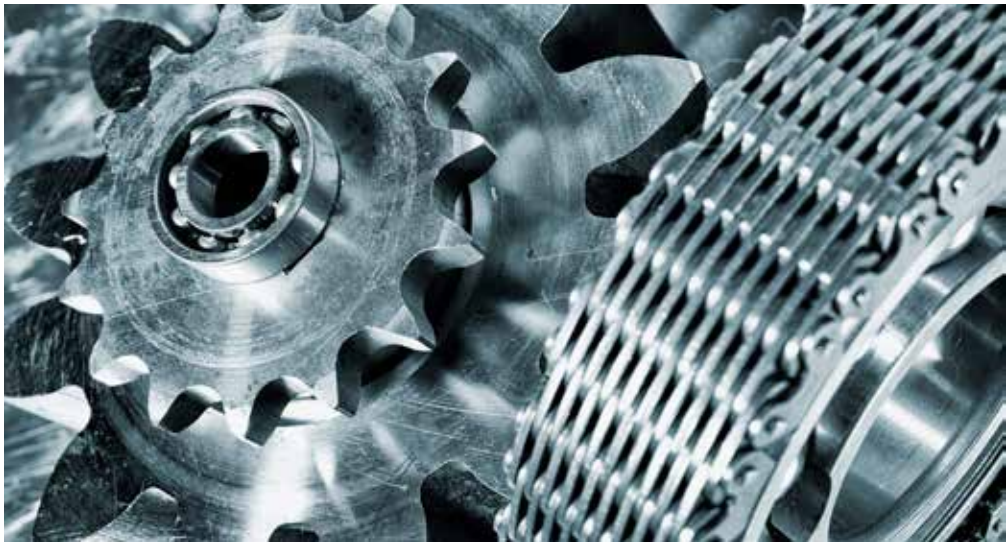
5 Connection expansion for additional conductors

This allows for the connection of up to six conductors with cable lugs per phase. Auxiliary busbar systems are no longer required. Special covers for IP2X finger protection are available.



6 Connection at rear

This allows for the connection of rails or round conductors with cable lugs at the rear. The switch area, the cable connection area and the control area can be easily partitioned.



Plug-in and withdrawable units

Safe to operate, with quick switch replacement

Withdrawable units
In addition to the fixed installation type, the NZM3 and NZM4 circuit breakers are also available with plug-in and withdrawable units. You will benefit in more than one way: You will save money and time while eliminating sources of error. This makes it possible to react quickly to malfunctions or to replace the parts (e.g. as a result of an increase in the rated current), thereby avoiding long and expensive downtimes. The withdrawable units are operated using a uniform crank, which increases operational safety. This also makes it possible to put the switch into the test position for functional testing without any switching of the main contacts.

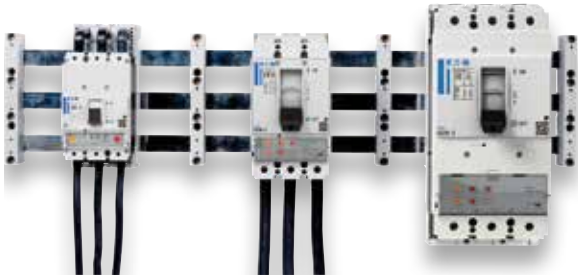
The position of the switch in the cassette can be detected by means of auxiliary contacts. This involves the following positions: connected/test position/disconnected. Even in the disconnected position, the switch is secured inside the cassette by means of a lock, to prevent it from falling out. Removal is only possible via manual release. In addition, the cassette can be locked in any position using a padlock. The standard terminals are compatible with the cassette base.

Plug-in units
The plug-in technology allows for the quick and easy replacement of switches, without the need to switch off the system. The equal width of the fixed circuit breakers and the plug-in units simplifies the planning and design of the system. In addition to its isolating characteristics, the plug-in technology also facilitates the implementation of a clearly visible isolating distance.

The socket features the same terminals as the fixed switches, while the open plug-in contacts provide for IP2X finger protection. During dismantling, the circuit breaker will be automatically opened and moved to the tripped position for safety reasons. The control-circuit cable can be disconnected by means of a control-circuit plug unit. If the system is to be modified at a later date, the use of plug-in sockets for reserve outlets is recommended.

The plug-in technology is available for the NZM1, NZM2 and NZM3 models. The technology enables the safe and simple electrical isolation of the system during maintenance or replacement of the circuit breaker. An optional control-circuit plug unit is also available. This control-circuit plug unit makes it possible to test the control commands to/from the circuit breaker (shunt/undervoltage release, auxiliary contacts), even if it is not installed as part of the system. The socket has the same types of terminals as the main device. The NZM system accessories can be used without restriction.

Multi-purpose adapter
For universal use and space-saving



Thanks to their space-saving contacts, the busbar adapters can be installed even in applications where space is limited. They are suitable for universal use on any 60 mm busbar system. They are compatible with three different frame sizes, for 160 A, 250 A and 550 A.

Releases and auxiliary contacts

Multi-purpose elements for easy handling

Identical function and assembly of accessories
Assembly and function are identical for all accessories, independent of frame size. This makes handling considerably easier, enabling you to save time while reducing installation and maintenance costs.

Push-in: Quick and safe connection
Both the new undervoltage and shunt releases up to 250 V and the relay modules now come with push-in terminals. This not only reduces the likelihood of errors, but also simplifies preparation and wiring while ensuring that your installation concept meets the highest safety requirements.

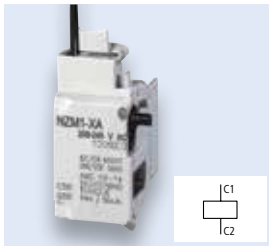
The relay modules allow for automated signaling and responses
The relay modules are available for voltages up to 230 V AC and 24 V DC. Combinations with a shunt release or undervoltage release, or with an optional early-make auxiliary contact, are also possible. If you do not require any additional functions, configurations with two relays will suffice. The modules can be activated in the event of certain alerts, statuses or functions. In addition, it is also possible to control a remote operator or a motor-starter combination, or to set up alert and status signaling to the PLC.

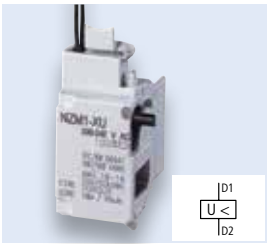
Simplified ordering thanks to the RMQ-Titan® contact elements
Like all standard auxiliary contacts in the 22-mm range, the trip-indicating switches use contact elements from the RMQ-Titan® range of control devices. The contact elements can simply be snapped on at the front. You can therefore choose from a wide range of auxiliary contacts, which are not only universally applicable, but also extremely robust and inexpensive. This simplifies the processes related to ordering and also reduces storage costs.

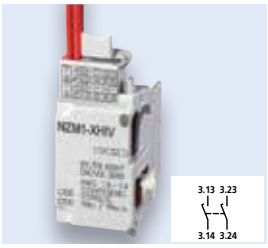
The position determines the function
Whether it's signaling contacts or trip-indicating auxiliary contacts – all contacts as well as releases are also available with screw terminals. This ensures quick wiring of the circuit breakers and switch-disconnectors. The double contacts allow for twice as many auxiliary and signaling contacts in the same space. They are equipped with spring-loaded cage clamps.

Flexible options for safety and locking tasks
Shunt or undervoltage releases are a sophisticated option for a wide range of applications – especially in combination with early-make auxiliary contacts, for example in interlocking or load-shedding circuits.

Voltage releases for a variety of tasks
Voltage releases are available for the following applications: as undervoltage releases (with or without early-make auxiliary contacts) for main switch applications in accordance with EN 60204; as shunt releases for remote release; and as mesh-network circuit breakers for increased trip reliability.







A special case: Mesh-network circuit breakers
Eaton offers two options for mesh-network circuit breakers: a shunt release that functions as intended in the range from 10 % to 110 % of the control voltage, and a special shunt release that ensures trip reliability up to 12 hours after a power failure, provided it is used in conjunction with a capacitor unit.

Variable operation

Toggle, turn, switch automatically

Door-coupling rotary handles – ergonomic switching
Shafts that can be cut to different lengths allow for installation in control panels and enclosures with depths up to 600 mm. A cost-effective and easy-to-install option is also available for tight installations where the switch is located directly on the inside of the cover.

Consistent and flexible
All door-coupling rotary handles have the same drilling template. This consistency contributes to a faster installation process. The switches can be installed either vertically or horizontally inside the control panel.

Toggle or turn
The new circuit breaker series comes with the proven toggle lever as standard. The three switching positions ON, OFF and "TRIPPED" indicate the status of the device. For typical isolator applications where a voltage release is not required, Eaton offers the cost-effective PN switch-disconnector with the switch position indicators 0 and I. Depending on the individual requirements, the toggle mechanism can be converted to rotary action by means of a rotary drive. If a main switch or emergency power-off switch is used with a rotary handle, the latter can be locked with up to three padlocks. For the emergency power-off function, the rotary handles are also available in red/yellow.

Application-specific connections
For greater flexibility, the door-coupling rotary handle is available in various versions. The standard handle allows for automatic locking of the handle position, so that the control-panel doors can be conveniently closed even at different switching positions. The second version can be locked by means of padlocks, which will lock the doors automatically when closed. In the third version, an additional locking mechanism is available directly at the switch. In a large distribution board, for example, the switches can thus be individually locked. For the emergency-stop function, the handles are also available in contrasting red/yellow.

Rotary handles

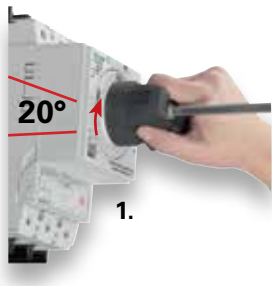
For switches and various types of interlocks

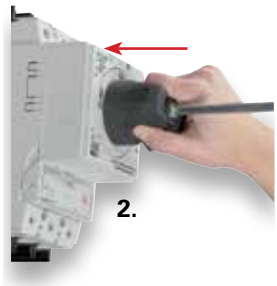
Key locks for NZM circuit breakers
This function prevents the corresponding circuit breaker or switch-disconnector from being opened, and ensures the isolating condition for the OFF position in accordance with IEC/EN 60947-1. In this version, a cylinder lock combines with our proven rotary handles and door-coupling rotary handles and acts directly on the switch. To activate the lock, the circuit breaker or switch-disconnector must be first switched off. The safety key can only be removed in the "OFF" position. Once the machine has been switched off, operators can easily and safely work on it. They will also be able to lock multiple switches securely against one another.

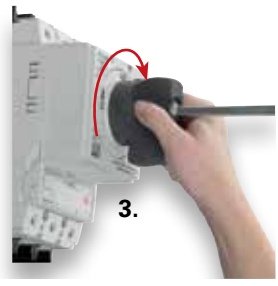
IEC and NA door-coupling rotary handles

Enhanced security by means of an additional handle on the switch

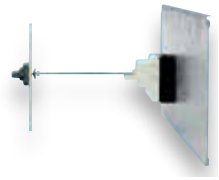
Door-coupling rotary handle for North America in accordance with NFPA79 and UL508A
The North American user guidelines stipulate that the actuator must always be connected to the switch. This also applies when the control panel door is open. The door-coupling rotary handle with additional handle on the switch fulfills this condition. The handle complies with the latest NFPA79 and UL508A regulations for "deliberate action". Deliberate action is ensured by the fact that the additional handle must first be moved by approximately 20° before being simultaneously pressed (2) and turned (3) to turn on the switch. All essential safety features, such as the means of actuation, the switch position indication and the locking capability, are present twice, i.e. both on the outside of the door-coupling rotary handle and on the inside of the switch. The rotary handle for North American standards is available for frame sizes 1, 2, 3, and 4.







Main switch assembly kits
Operators and accessories



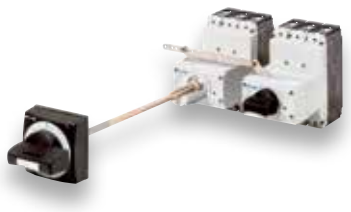
Flange operator
For applications up to 1,600 A, the flange operator allows the switch to be operated from the right or left hand side, as desired. With the optional addition of our mounting bracket for frame sizes 1 and 2, the space inside the control panel can be optimally used. The mounting plate can thus be used for other machine control elements.

Side-mounted handle
In UL applications, the side-mounted handle can be used for different frame sizes and for complete sets as well as for different degrees of protection and Bowden cable lengths. Caution: The side-mounted handle does not have IEC approval.

Rear operator
The innovative rear operators for circuit breakers and switch-disconnectors of frame sizes 1 and 2 offer an inexpensive and compact option for installing the switch and the door handle as a single unit in the enclosure doors or side panels. Typical applications include main switches with rated currents up to 250 A, for example in processing machines where space is limited (with or without emergency power-off function).

In addition to the optical benefits of this type of externally visible mounting, it also provides simple and fast access to the terminals, setting buttons, voltage releases and auxiliary contacts. Thanks to the UL/CSA approvals, the devices are suitable for global use, including North America. All circuit breakers and switch-disconnectors from the NZM1 and NZM2 range can be fitted with a rear operator. The compact mechanism and the solid rotary handle allow for quick installation and easy operation.

Accessories
A wide range of accessories, such as covers, locking devices, bezels and spacers etc., are available for all rotary handles and operators.



Paralleling mechanism
The sophisticated paralleling mechanism for disconnectors (PN) up to 630 A enables the simultaneous switching of multiple devices with just one movement. In a processing machine, for example, both the main and the auxiliary circuits can thus be safely switched at the same time.

Remote operators

A consistent functional concept for simplified operation

It is in Eaton's nature to move things forward, as proven by our efforts to continuously optimize the accessories of the NZM product family. For example, the remote operators have now been equipped with a new control-circuit terminal, in which the plug can be firmly screwed to the pin header. An additional advantage: The terminal system comes with time-saving push-in terminals as a standard.

The economic NZM2 remote operator for standard tasks with rated currents up to 300 A

The switching time of the new NZM2 remote operator is max. 170 ms, and it can therefore be used for automated or remote energy control in standard applications. The retractable mounting plate allows for quick checking of the built-in auxiliary contacts and voltage releases. Thanks to its slim design, the remote operator does not require any additional mounting surface. It has been equipped with a selector switch to ensure safe differentiation between the various operating positions. In addition, the switches can be securely locked in the 0 position by means of padlocks.

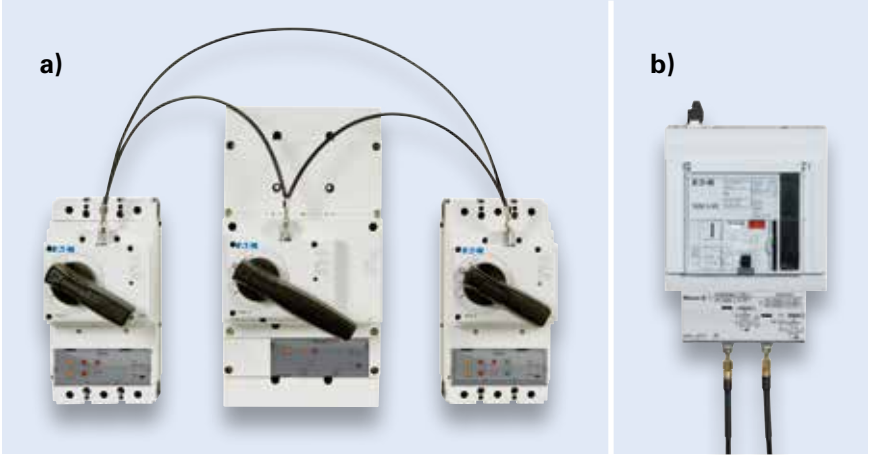
The convenient remote operator for synchronization tasks of the NZM2 to NZM4 series

The spring-loaded operator enables fast switch-on times of 60 ms or 100 ms, making it suitable for use with synchronization tasks. Short function sequences and the small number of parts ensure a high degree of stability and a long service life. The possibility to seal the auto function and the option of locking the remote operator with a padlock are further important contributions to safety.

Mechanical interlocks

With Bowden cable

Mechanical lock modules allow for the locking of two or three switches (of identical or different frame sizes), which can either be equipped with rotary handles (a) or remote operators (b). The use of the Bowden cable makes it possible to mount the switches freely in various positions. The switches may be arranged up to 1 m apart – for example in separate enclosures.



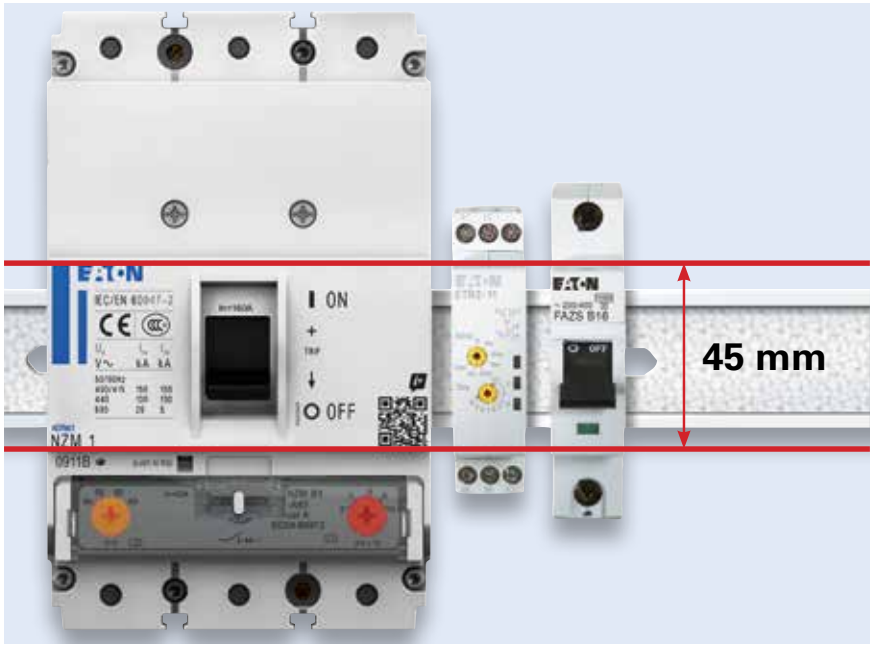
Mounting tools

Save time and money

Spacers
All switches, including their accessories, have been designed on a grid with the spacer as the base unit. Different switch depths can be easily compensated with the quick addition of inexpensive spacers. If the circuit breaker is to be externally operated, this option offers a cost-effective alternative to the door-coupling rotary handle with shaft extension. This brand new technology thus results in significant time and cost savings.

Bezels
Whether the switch is equipped with a toggle lever, a rotary operator or a remote operator, the bezel will always fit. There is thus no need to keep various types of bezels in stock. This is a low-cost option for operating switches from the outside when the control panel door is closed. The bezel has IP40 degree of protection, and the inscription labels can be simply snapped on.

Top-hat rail mounting
The top-hat rail mounting saves time thanks to the use of clip plates for NZM1 and NZM2. Simply attach the clip plate to the circuit breaker at the rear and then clip it onto the top-hat rail. A tiresome drilling of holes in the mounting plate is no longer necessary. A special advantage of the small NZM1: Thanks to the standardized front dimensions, add-on configurations (e.g. with narrow circuit breakers) are possible inside the distribution board.



Compact circuit breakers, switch disconnectors

Circuit breakers, thermomagnetic releases, 3 pole
NZM...A

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range Overload releases	Setting range Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

- IEC/EN 60947-2

Basic switching capacity


1230PIC-785 Symbolphoto

25	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		


1230PIC-802 Symbolphoto

	125	100 - 125	6 - 10	NZMB2-A125	259087
	160	125 - 160	6 - 10	NZMB2-A160	259088
	200	160 - 200	6 - 10	NZMB2-A200	259089
	250	200 - 250	6 - 10	NZMB2-A250	259090
	300	240 - 300	5 - 8.3	NZMB2-A300	107518

Comfort switching capacity


1230PIC-785 Symbolphoto

36	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		


1230PIC-802 Symbolphoto

	125	100 - 125	6 - 10	NZMC2-A125	271420
	160	125 - 160	6 - 10	NZMC2-A160	271421
	200	160 - 200	6 - 10	NZMC2-A200	271422
	250	200 - 250	6 - 10	NZMC2-A250	271423
	300	240 - 300	5 - 8.3	NZMC2-A300	107519


1230PIC-703 Symbolphoto

	250	200 - 250	6 - 10	NZMC3-A250	109664
	320	250 - 320	6 - 10	NZMC3-A320	109665
				-	
	400	320 - 400	6 - 10	NZMC3-A400	109666
				-	
	500	400 - 500	6 - 10	NZMC3-A500	109667
				-	

Fixed mounting with box terminals		Plug-in/withdrawable units		
Part no.	Article no.	Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types see accessories

NZMB1-A20	280987	NZMB1-A20-SVE	112733	1 Off
NZMB1-A25	280988	NZMB1-A25-SVE	112734	
NZMB1-A32	280989	NZMB1-A32-SVE	112735	
NZMB1-A40	259075	NZMB1-A40-SVE	112703	
NZMB1-A50	259076	NZMB1-A50-SVE	112704	
NZMB1-A63	259077	NZMB1-A63-SVE	112705	
NZMB1-A80	259078	NZMB1-A80-SVE	112706	
NZMB1-A100	259079	NZMB1-A100-SVE	112707	
NZMB1-A125	259080	NZMB1-A125-SVE	112708	
NZMB1-A160	281230	-		
Terminals as accessory		NZMB2-A125-SVE	113192	
NZMB2-A160-BT	110215	NZMB2-A160-SVE	113193	
NZMB2-A200-BT	110216	NZMB2-A200-SVE	113194	
NZMB2-A250-BT	110217	NZMB2-A250-SVE	113195	
NZMB2-A300-BT	110214	-		

NZMC1-A20	283293	NZMC1-A20-SVE	112753	1 Off
NZMC1-A25	283294	NZMC1-A25-SVE	112754	
NZMC1-A32	283295	NZMC1-A32-SVE	112755	
NZMC1-A40	271392	NZMC1-A40-SVE	112737	
NZMC1-A50	271393	NZMC1-A50-SVE	112738	
NZMC1-A63	271394	NZMC1-A63-SVE	112739	
NZMC1-A80	271395	NZMC1-A80-SVE	112740	
NZMC1-A100	271396	NZMC1-A100-SVE	112741	
NZMC1-A125	271397	NZMC1-A125-SVE	112742	
NZMC1-A160	283296	-		
Terminals as accessory		NZMC2-A125-SVE	113219	1 Off
NZMC2-A160-BT	110219	NZMC2-A160-SVE	113220	
NZMC2-A200-BT	110280	NZMC2-A200-SVE	113221	
NZMC2-A250-BT	110281	NZMC2-A250-SVE	113222	
NZMC2-A300-BT	110218	-		

Terminals as accessory		-	
NZMC3-A320-BT	110299	NZMC3-A320-SVE	168450
-		NZMC3-A320-AVE	113509
NZMC3-A400-BT	110300	NZMC3-A400-SVE	168451
-		NZMC3-A400-AVE	113510
NZMC3-A500-BT	110301	NZMC3-A500-SVE	168452
-		NZMC3-A500-AVE	113511

Compact circuit breakers, switch disconnectors

Circuit breakers, thermomagnetic releases, 3 pole
NZM...A

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range		Fixed mounting with screw terminals	
		Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

- IEC/EN 60947-2

Normal switching capacity


1230PIC-785 Symbolphoto

50	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		


1230PIC-802 Symbolphoto

	125	100 - 125	6 - 10	NZMN2-A125	259091
	160	125 - 160	6 - 10	NZMN2-A160	259092
	200	160 - 200	6 - 10	NZMN2-A200	259093
	250	200 - 250	6 - 10	NZMN2-A250	259094
	300	240 - 300	5 - 8.3	NZMN2-A300	107580


1230PIC-703 Symbolphoto

	250	125 - 250	6 - 10	NZMN3-A250	109668
	320	250 - 320	6 - 10	NZMN3-A320	109669
				-	
	400	320 - 400	6 - 10	NZMN3-A400	109670
				-	
	500	400 - 500	6 - 10	NZMN3-A500	109671
				-	

Fixed mounting with box terminals		**Plug-in/withdrawable units**		
Part no.	Article no.	Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types see accessories

NZMN1-A20	281231	NZMN1-A20-SVE	112776	1 Off
NZMN1-A25	281232	NZMN1-A25-SVE	112777	
NZMN1-A32	281233	NZMN1-A32-SVE	112778	
NZMN1-A40	259081	NZMN1-A40-SVE	112757	
NZMN1-A50	259082	NZMN1-A50-SVE	112758	
NZMN1-A63	259083	NZMN1-A63-SVE	112759	
NZMN1-A80	259084	NZMN1-A80-SVE	112760	
NZMN1-A100	259085	NZMN1-A100-SVE	112761	
NZMN1-A125	259086	NZMN1-A125-SVE	112762	
NZMN1-A160	281234	-		
Terminals as accessory		NZMN2-A125-SVE	113243	
NZMN2-A160-BT	110283	NZMN2-A160-SVE	113244	
NZMN2-A200-BT	110284	NZMN2-A200-SVE	113245	
NZMN2-A250-BT	110285	NZMN2-A250-SVE	113246	
NZMN2-A300-BT	110282	-		
Terminals as accessory		-		
NZMN3-A320-BT	110302	NZMN3-A320-SVE	168486	
-		NZMN3-A320-AVE	110858	
NZMN3-A400-BT	110303	NZMN3-A400-SVE	168487	
-		NZMN3-A400-AVE	110859	
NZMN3-A500-BT	110304	NZMN3-A500-SVE	168488	
-		NZMN3-A500-AVE	110860	

Compact circuit breakers, switch disconnectors

Circuit breakers, thermomagnetic releases, 3 pole
NZM...A

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range		Fixed mounting with screw terminals	
		Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

- IEC/EN 60947-2

Strong switching capacity

1230PIC-785 Symbolphoto

70	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		

1230PIC-802 Symbolphoto

20	15 - 20	350 A fixed	NZMS2-A20	192020
32	25 - 32	350 A fixed	NZMS2-A32	192022
40	32 - 40	8 - 10	NZMS2-A40	109958
50	40 - 50	6 - 10	NZMS2-A50	109959
63	50 - 63	6 - 10	NZMS2-A63	109960
80	63 - 80	6 - 10	NZMS2-A80	109961
100	80 - 100	6 - 10	NZMS2-A100	109962
125	100 - 125	6 - 10	NZMS2-A125	109963
160	125 - 160	6 - 10	NZMS2-A160	109964
200	160 - 200	6 - 10	NZMS2-A200	109965
250	200 - 250	6 - 10	NZMS2-A250	109966
300	150 - 300	5 - 8.3	NZMS2-A300	109967

1230PIC-703 Symbolphoto

250	200 - 250	6 - 10	NZMS3-A250	192023
320	250 - 320	6 - 10	NZMS3-A320	192024
400	320 - 400	6 - 10	NZMS3-A400	192025
500	400 - 500	6 - 10	NZMS3-A500	192026

Fixed mounting with box terminals			Plug-in/withdrawable units		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMS1-A20	109933		NZMS1-A20-SVE	112780	1 Off
NZMS1-A25	109934		NZMS1-A25-SVE	112781	
NZMS1-A32	109935		NZMS1-A32-SVE	112782	
NZMS1-A40	109936		NZMS1-A40-SVE	112783	
NZMS1-A50	109937		NZMS1-A50-SVE	112784	
NZMS1-A63	109938		NZMS1-A63-SVE	112785	
NZMS1-A80	109939		NZMS1-A80-SVE	112786	
NZMS1-A100	109940		NZMS1-A100-SVE	112787	
NZMS1-A125	109941		NZMS1-A125-SVE	112788	
NZMS1-A160	109942		-		
Terminals as accessory			-		
			-		
			NZMS2-A40-SVE	113283	
			NZMS2-A50-SVE	113284	
			NZMS2-A63-SVE	113285	
			NZMS2-A80-SVE	113286	
			NZMS2-A100-SVE	113287	
			NZMS2-A125-SVE	113288	
			NZMS2-A160-SVE	113289	
			NZMS2-A200-SVE	113290	
			NZMS2-A250-SVE	113291	
			-		
Terminals as accessory			-		
			-		
			-		
			-		

Compact circuit breakers, switch disconnectors

Circuit breakers, thermomagnetic releases, 3 pole
NZM...A

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range		Fixed mounting with screw terminals	
		Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

- IEC/EN 60947-2

High switching capacity


1230PIC-785 Symbolphoto

100	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		


1230PIC-802 Symbolphoto

150	20	15 - 20	350 A fixed	NZMH2-A20	281281
	25	20 - 25	350 A fixed	NZMH2-A25	281282
	32	25 - 32	350 A fixed	NZMH2-A32	281283
	40	32 - 40	8 - 10	NZMH2-A40	259095
	50	40 - 50	6 - 10	NZMH2-A50	259096
	63	50 - 63	6 - 10	NZMH2-A63	259097
	80	63 - 80	6 - 10	NZMH2-A80	259098
	100	80 - 100	6 - 10	NZMH2-A100	259099
	125	100 - 125	6 - 10	NZMH2-A125	259100
	160	125 - 160	6 - 10	NZMH2-A160	259101
	200	160 - 200	6 - 10	NZMH2-A200	259102
	250	200 - 250	6 - 10	NZMH2-A250	259103
	300	240 - 300	5 - 8.3	NZMH2-A300	107581


1230PIC-703 Symbolphoto

	250	200 - 250	6 - 10	NZMH3-A250	109672
	320	250 - 320	6 - 10	NZMH3-A320	109673
				-	
	400	400 - 500	6 - 10	NZMH3-A400	109674
				-	
	500	400 - 500	6 - 10	NZMH3-A500	109675
				-	

Fixed mounting with box terminals			Plug-in/withdrawable units		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMH1-A20	284376		NZMH1-A20-SVE	112795	1 Off
NZMH1-A25	284377		NZMH1-A25-SVE	112796	
NZMH1-A32	284378		NZMH1-A32-SVE	112797	
NZMH1-A40	284379		NZMH1-A40-SVE	112798	
NZMH1-A50	284410		NZMH1-A50-SVE	112799	
NZMH1-A63	284411		NZMH1-A63-SVE	112800	
NZMH1-A80	284412		NZMH1-A80-SVE	112801	
NZMH1-A100	284413		NZMH1-A100-SVE	112802	
NZMH1-A125	284414		NZMH1-A125-SVE	112803	
NZMH1-A160	284415		-		
NZMH2-A20-BT	110296		NZMH2-A20-SVE	113351	
NZMH2-A25-BT	110297		NZMH2-A25-SVE	113352	
NZMH2-A32-BT	110298		NZMH2-A32-SVE	113353	
NZMH2-A40-BT	110287		NZMH2-A40-SVE	113328	
NZMH2-A50-BT	110288		NZMH2-A50-SVE	113329	
NZMH2-A63-BT	110289		NZMH2-A63-SVE	113330	
NZMH2-A80-BT	110290		NZMH2-A80-SVE	113331	
NZMH2-A100-BT	110291		NZMH2-A100-SVE	113332	
NZMH2-A125-BT	110292		NZMH2-A125-SVE	113333	
NZMH2-A160-BT	110293		NZMH2-A160-SVE	113334	
NZMH2-A200-BT	110294		NZMH2-A200-SVE	113335	
NZMH2-A250-BT	110295		NZMH2-A250-SVE	113336	
NZMH2-A300-BT	110286		-		
Terminals as accessory			-		
NZMH3-A320-BT	110305		NZMH3-A320-SVE	168913	
-			NZMH3-A320-AVE	110861	
NZMH3-A400-BT	110306		NZMH3-A400-SVE	168914	
-			NZMH3-A400-AVE	110862	
NZMH3-A500-BT	110307		NZMH3-A500-SVE	168915	
-			NZMH3-A500-AVE	110863	

Compact circuit breakers, switch disconnectors

Circuit breakers, thermomagnetic releases, 3 pole
NZM...M

Fixed mounting with screw terminals

Switching capacity	Rated current =	Setting range		Rated operational power	Rated operational current	Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	AC-3 50/60 Hz			
				400 V	400 V		
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$	P kW	I_e A		

Motor protection

- NZM...1-M...: with phase-failure sensitivity
- Tripping class 10 A
- IEC/EN 60947-2

Basic switching capacity

1230PIC-786 Symbolphoto

25	40	32 - 40	8 - 14	18.5	36	Screw terminals as accessories	
	50	40 - 50	8 - 14	22	41		
	63	40 - 63	8 - 14	30	55		
	80	63 - 80	8 - 14	37	68		
	100	80 - 100	8 - 12.5	45	81		

1230PIC-803 Symbolphoto

	125	100 - 125	8 - 14	55	99	NZMB2-M125	265715
	160	125 - 160	8 - 14	75	134	NZMB2-M160	265716
	200	160 - 200	8 - 14	110	196	NZMB2-M200	265717

Comfort switching capacity

1230PIC-786 Symbolphoto

36	40	32 - 40	8 - 14	18.5	36	Screw terminals as accessories	
	50	40 - 50	8 - 14	22	41		
	63	50 - 63	8 - 14	30	55		
	80	63 - 80	8 - 14	37	68		
	100	80 - 100	8 - 12.5	45	99		

1230PIC-803 Symbolphoto

	125	100 - 125	8 - 14	55	99	NZMC2-M125	271424
	160	125 - 160	8 - 14	75	134	NZMC2-M160	271425
	200	160 - 200	8 - 14	110	196	NZMC2-M200	271426

Fixed mounting with box terminals			**Plug-in units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMB1-M40	265710		NZMB1-M40-SVE	112709	1 Off
NZMB1-M50	265711		NZMB1-M50-SVE	112720	
NZMB1-M63	265712		NZMB1-M63-SVE	112721	
NZMB1-M80	265713		NZMB1-M80-SVE	112722	
NZMB1-M100	265714		NZMB1-M100-SVE	112723	
NZMB2-M125-BT	115260		NZMB2-M125-SVE	113196	
Terminals as accessory			NZMB2-M160-SVE	113197	
			NZMB2-M200-SVE	113198	
NZMC1-M40	271398		NZMC1-M40-SVE	112743	1 Off
NZMC1-M50	271399		NZMC1-M50-SVE	112744	
NZMC1-M63	271400		NZMC1-M63-SVE	112745	
NZMC1-M80	271401		NZMC1-M80-SVE	112746	
NZMC1-M100	271402		NZMC1-M100-SVE	112747	
Terminals as accessory			NZMC2-M125-SVE	113223	
			NZMC2-M160-SVE	113224	
			NZMC2-M200-SVE	113225	

Compact circuit breakers, switch disconnectors

Circuit breakers, thermomagnetic releases, 3 pole
NZM...M

Fixed mounting with screw terminals

Switching capacity	Rated current =	Setting range		Rated operational power	Rated operational current	Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	AC-3 50/60 Hz			
				400 V	400 V		
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$	P kW	I_e A		

Motor protection

- NZM...1-M...: with phase-failure sensitivity
- Tripping class 10 A
- IEC/EN 60947-2

Normal switching capacity

1230PIC-786 Symbolphoto

50	40	32 - 40	8 - 14	18.5	36	Screw terminals as accessories	
	50	40 - 50	8 - 14	22	41		
	63	50 - 63	8 - 14	30	55		
	80	63 - 80	8 - 14	37	68		
	100	80 - 100	8 - 12.5	45	99		

1230PIC-803 Symbolphoto

	125	100 - 125	8 - 14	55	99	NZMN2-M125	265723
	160	125 - 160	8 - 14	75	134	NZMN2-M160	265724
	200	160 - 200	8 - 14	110	196	NZMN2-M200	265725

Strong switching capacity

1230PIC-803 Symbolphoto

70	20	15 - 20	350 A fixed	7.5	16	NZMS2-M20	109968
	25	20 - 25	350 A fixed	11	21.7	NZMS2-M25	109969
	32	25 - 32	350 A fixed	15	29.3	NZMS2-M32	109970
	40	32 - 40	8 - 14	18.5	36	NZMS2-M40	109971
	50	40 - 50	8 - 14	22	41	NZMS2-M50	109972
	63	50 - 63	8 - 14	30	55	NZMS2-M63	109973
	80	63 - 80	8 - 14	37	68	NZMS2-M80	109974
	100	80 - 100	8 - 14	55	81	NZMS2-M100	109975
	125	100 - 125	8 - 14	55	100	NZMS2-M125	109976
	160	125 - 160	8 - 14	75	134	NZMS2-M160	109977
	200	160 - 200	8 - 14	110	196	NZMS2-M200	109978

Fixed mounting with box terminals			**Plug-in units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types
see accessories

NZMN1-M40	265718		NZMN1-M40-SVE	112763	1 Off
NZMN1-M50	265719		NZMN1-M50-SVE	112764	
NZMN1-M63	265720		NZMN1-M63-SVE	112765	
NZMN1-M80	265721		NZMN1-M80-SVE	112766	
NZMN1-M100	265722		NZMN1-M100-SVE	112767	
Terminals as accessory			NZMN2-M125-SVE	113250	
			NZMN2-M160-SVE	113251	
			NZMN2-M200-SVE	113252	
Terminals as accessory			NZMS2-M20-SVE	113293	1 Off
			NZMS2-M25-SVE	113294	
			NZMS2-M32-SVE	113295	
			NZMS2-M40-SVE	113296	
			NZMS2-M50-SVE	113297	
			NZMS2-M63-SVE	113298	
			NZMS2-M80-SVE	113299	
			NZMS2-M100-SVE	113300	
			NZMS2-M125-SVE	113301	
			NZMS2-M160-SVE	113302	
			NZMS2-M200-SVE	113303	

Compact circuit breakers, switch disconnectors

Circuit breakers, thermomagnetic releases, 3 pole
NZM...M

Fixed mounting with screw terminals

Switching capacity	Rated current =	Setting range		Rated operational power	Rated operational current	Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	AC-3 50/60 Hz			
				400 V	400 V		
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$	P kW	I_e A		

Motor protection

- NZM...1-M...: with phase-failure sensitivity
- Tripping class 10 A
- IEC/EN 60947-2

High switching capacity

1230PIC-786 Symbolphoto

100	40	32-40	8 - 14	18.5	36	Screw terminals as accessories	
	50	40-50	8 - 14	22	41		
	63	50-63	8 - 14	30	55		
	80	63-80	8 - 14	37	68		
	100	80-100	8 - 12.5	45	99		

1230PIC-803 Symbolphoto

	25	20-25	350 A fixed	11	21.7	NZMH2-M25	281300
	32	25-32	350 A fixed	15	29.3	NZMH2-M32	281301
	40	32-40	8 - 14	18.5	36	NZMH2-M40	281302
	50	40-50	8 - 14	22	41	NZMH2-M50	281303
	63	50-63	8 - 14	30	55	NZMH2-M63	281304
	80	63-80	8 - 14	37	68	NZMH2-M80	281305
	100	80-100	8 - 14	45	99	NZMH2-M100	281306
	125	100-125	8 - 14	55	99	NZMH2-M125	281307
	160	125-160	8 - 14	75	134	NZMH2-M160	281308
	200	160-200	8 - 14	110	196	NZMH2-M200	281309

Fixed mounting with box terminals			**Plug-in units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types
see accessories

NZMH1-M40	115450		NZMH1-M40-SVE	115790	1 Off
NZMH1-M50	115451		NZMH1-M50-SVE	115791	
NZMH1-M63	115452		NZMH1-M63-SVE	115792	
NZMH1-M80	115453		NZMH1-M80-SVE	115793	
NZMH1-M100	115454		NZMH1-M100-SVE	115794	
Terminals as accessory			NZMH2-M25-SVE	113355	
			NZMH2-M32-SVE	113356	
			NZMH2-M40-SVE	113357	
			NZMH2-M50-SVE	113358	
			NZMH2-M63-SVE	113359	
			NZMH2-M80-SVE	113360	
			NZMH2-M100-SVE	113361	
			NZMH2-M125-SVE	113362	
			NZMH2-M160-SVE	113363	
			NZMH2-M200-SVE	113364	

Compact circuit breakers, switch disconnectors

Circuit breakers, magnetic short-circuit releases, 3 pole
NZM...S

Switching capacity	Rated current =	Setting range	Rated operational power	Rated operational current	Fixed mounting with screw terminals Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Short-circuit releases Non-delayed	AC-3 50/60 Hz	AC-3 50/60 Hz		
			400 V	400 V		
I_{cu} kA	$I_n = I_u$ A	$I_i = I_n x...$	P kW	I_e A		
		I >				

Short-circuit protection

Motor protection in conjunction with overload relay
- With short-circuit releases
- Without overload releases $I_{r = Inx...}$
- IEC/EN 60947-2

Basic switching capacity

1230PIC-787 Symbolphoto

25	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	81		

1230PIC-804 Symbolphoto

	125	8 - 14	45	99	NZMB2-S125	265736
	160	8 - 14	75	134	NZMB2-S160	265737
	200	8 - 12.5	110	196	NZMB2-S200	265738

Comfort switching capacity

1230PIC-787 Symbolphoto

36	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	81		

1230PIC-804 Symbolphoto

	125	8 - 14	45	99	NZMC2-S125	271427
	160	8 - 14	75	134	NZMC2-S160	271428
	200	8 - 12.5	110	196	NZMC2-S200	271429

1230PIC-881 Symbolphoto

	250	8 - 14	132	231	NZMC3-S250	109676
					-	
	320	8 - 14	160	279	NZMC3-S320	109677
					-	
	400	7 - 12.5	200	349	NZMC3-S400	109678
					-	
	500	6 - 10	250	437	NZMC3-S500	109679
					-	

Fixed mounting with box terminals			Plug-in/withdrawable units		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMB1-S40	265726		NZMB1-S40-SVE	112724	1 Off
NZMB1-S50	265727		NZMB1-S50-SVE	112725	
NZMB1-S63	265728		NZMB1-S63-SVE	112726	
NZMB1-S80	265729		NZMB1-S80-SVE	112727	
NZMB1-S100	265730		NZMB1-S100-SVE	112728	
Terminals as accessory			NZMB2-S125-SVE	113199	
			NZMB2-S160-SVE	113200	
			NZMB2-S200-SVE	113201	
NZMC1-S40	271403		NZMC1-S40-SVE	112748	1 Off
NZMC1-S50	271404		NZMC1-S50-SVE	112749	
NZMC1-S63	271405		NZMC1-S63-SVE	112750	
NZMC1-S80	271406		NZMC1-S80-SVE	112751	
NZMC1-S100	271407		NZMC1-S100-SVE	112752	
Terminals as accessory			NZMC2-S125-SVE	113226	
			NZMC2-S160-SVE	113227	
			NZMC2-S200-SVE	113228	
Terminals as accessory			NZMC3-S250-SVE	168453	
			NZMC3-S250-AVE	113512	
			NZMC3-S320-SVE	168454	
			NZMC3-S320-AVE	113513	
			NZMC3-S400-SVE	168455	
			NZMC3-S400-AVE	113514	
			NZMC3-S500-SVE	168456	
			NZMC3-S500-AVE	113515	

Compact circuit breakers, switch disconnectors

Circuit breakers, magnetic short-circuit releases, 3 pole
NZM...S

Switching capacity	Rated current =	Setting range	Rated operational power	Rated operational current	Fixed mounting with screw terminals Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Short-circuit releases Non-delayed	AC-3 50/60 Hz	AC-3 50/60 Hz		
			400 V	400 V		
I_{cu} kA	$I_n = I_u$ A	$I_i = I_n x...$	P kW	I_e A		
		I >				

Short-circuit protection

Motor protection in conjunction with overload relay
- With short-circuit releases
- Without overload releases $I_{r = Inx...}$
- IEC/EN 60947-2

Normal switching capacity


1230PIC-787 Symbolphoto

50	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	81		


1230PIC-804 Symbolphoto

	125	8 - 14	45	99	NZMN2-S125	265739
	160	8 - 14	75	134	NZMN2-S160	265740
	200	8 - 12.5	110	196	NZMN2-S200	265741


1230PIC-881 Symbolphoto

	250	8 - 14	132	231	NZMN3-S250	109680
					-	
	320	8 - 14	160	279	NZMN3-S320	109681
					-	
	400	7 - 12.5	200	349	NZMN3-S400	109682
					-	
	500	6 - 10	250	437	NZMN3-S500	109683
					-	

Strong switching capacity


1230PIC-787 Symbolphoto

70	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	99		


1230PIC-804 Symbolphoto

	125	8 - 14	45	99	NZMS2-S125	109979
	160	8 - 14	75	134	NZMS2-S160	109980
	200	8 - 12.5	110	196	NZMS2-S200	109981

Fixed mounting with box terminals			Plug-in/withdrawable units		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMN1-S40	265731		NZMN1-S40-SVE	112768	1 Off
NZMN1-S50	265732		NZMN1-S50-SVE	112769	
NZMN1-S63	265733		NZMN1-S63-SVE	112770	
NZMN1-S80	265734		NZMN1-S80-SVE	112771	
NZMN1-S100	265735		NZMN1-S100-SVE	112772	
Terminals as accessory			NZMN2-S125-SVE	113253	
			NZMN2-S160-SVE	113254	
			NZMN2-S200-SVE	113255	
Terminals as accessory			NZMN3-S250-SVE	168489	
			NZMN3-S250-AVE	113523	
			NZMN3-S320-SVE	168490	
			NZMN3-S320-AVE	113524	
			NZMN3-S400-SVE	168491	
			NZMN3-S400-AVE	113525	
			NZMN3-S500-SVE	168492	
			NZMN3-S500-AVE	113526	
NZMS1-S40	109943		NZMS1-S40-SVE	112790	1 Off
NZMS1-S50	109944		NZMS1-S50-SVE	112791	
NZMS1-S63	109945		NZMS1-S63-SVE	112792	
NZMS1-S80	109946		NZMS1-S80-SVE	112793	
NZMS1-S100	109947		NZMS1-S100-SVE	112794	
Terminals as accessory			NZMS2-S125-SVE	113304	
			NZMS2-S160-SVE	113305	
			NZMS2-S200-SVE	113306	

Compact circuit breakers, switch disconnectors

Circuit breakers, magnetic short-circuit releases, 3 pole
NZM...S

Switching capacity	Rated current =	Setting range	Rated operational power	Rated operational current	Fixed mounting with screw terminals Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Short-circuit releases Non-delayed	AC-3 50/60 Hz	AC-3 50/60 Hz		
			400 V	400 V		
I_{cu} kA	$I_n = I_u$ A	$I_i = I_n x...$	P kW	I_e A		
		I >				

Short-circuit protection

Motor protection in conjunction with overload relay
- With short-circuit releases
- Without overload releases $I_{r = Inx...}$
- IEC/EN 60947-2

High switching capacity

1230PIC-787 Symbolphoto

100	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	81		

1230PIC-804 Symbolphoto

150	40	8 - 14	22	41	NZMH2-S40	265742
	50	8 - 14	30	55	NZMH2-S50	265743
	63	8 - 14	37	68	NZMH2-S63	265744
	80	8 - 14	45	99	NZMH2-S80	265745
	100	8 - 14	45	99	NZMH2-S100	265746
	125	8 - 14	75	134	NZMH2-S125	265747
	160	8 - 12.5	110	196	NZMH2-S160	265748
	200	8 - 12.5	110	196	NZMH2-S200	265749

1230PIC-881 Symbolphoto

	250	8 - 14	132	231	NZMH3-S250	109684
					-	
	320	8 - 14	160	279	NZMH3-S320	109685
					-	
	400	7 - 12.5	200	349	NZMH3-S400	109686
					-	
	500	6 - 10	250	437	NZMH3-S500	109687
					-	

Fixed mounting with box terminals			Plug-in/withdrawable units		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMH1-S40	284436		NZMH1-S40-SVE	112805	1 Off
NZMH1-S50	284437		NZMH1-S50-SVE	112806	
NZMH1-S63	284438		NZMH1-S63-SVE	112807	
NZMH1-S80	284439		NZMH1-S80-SVE	112808	
NZMH1-S100	284440		NZMH1-S100-SVE	112809	
Terminals as accessory			NZMH2-S40-SVE	113340	
			NZMH2-S50-SVE	113341	
			NZMH2-S63-SVE	113342	
			NZMH2-S80-SVE	113343	
			NZMH2-S100-SVE	113344	
			NZMH2-S125-SVE	113345	
			NZMH2-S160-SVE	113346	
			NZMH2-S200-SVE	113347	
Terminals as accessory			NZMH3-S250-SVE	168916	
			NZMH3-S250-AVE	113566	
			NZMH3-S320-SVE	168917	
			NZMH3-S320-AVE	113567	
			NZMH3-S400-SVE	168918	
			NZMH3-S400-AVE	113568	
			NZMH3-S500-SVE	168919	
			NZMH3-S500-AVE	113569	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 3 pole
NZM...AX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range Overload releases	Setting range Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no. Article no.	
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

- IEC/EN 60947-2

Normal switching capacity


wa_ren_00418_r Symbolphoto

50	40	20 - 40	2 - 12	NZMN2-AX40	192001
	63	25 - 63	2 - 12	NZMN2-AX63	192002
	100	40 - 100	2 - 12	NZMN2-AX100	192003
	160	64 - 160	2 - 12	NZMN2-AX160	192004
	350	100 - 250	2 - 12	NZMN2-AX250	192005


wa_ren_00918_r Symbolphoto

	250	100 - 250	2 - 11	NZMN3-AX250	191599
	400	160 - 400	2 - 11	NZMN3-AX400	191600
	630	252 - 630	2 - 8	NZMN3-AX630	191601


wa_ren_01418_r Symbolphoto

	630	252 - 630	2 - 12	NZMN4-AX630	191418
	800	320 - 800	2 - 12	NZMN4-AX800	191419
	1000	400 - 1000	2 - 12	NZMN4-AX1000	191420
	1250	500 - 1250	2 - 12	NZMN4-AX1250	191421
	1600	640 - 1600	2 - 12	NZMN4-AX1600	191422

Strong switching capacity


wa_ren_00418_r Symbolphoto

70	40	20 - 40	12 - 12	NZMS2-AX40	192028
	63	25 - 63	12 - 12	NZMS2-AX63	192029
	100	40 - 100	12 - 12	NZMS2-AX100	192030
	160	64 - 160	12 - 12	NZMS2-AX160	192031
	250	100 - 250	12 - 12	NZMS2-AX250	192032


wa_ren_00918_r Symbolphoto

	250	100 - 250	2 - 11	NZMS3-AX250	192033
	400	160 - 400	2 - 11	NZMS3-AX400	191494
	630	252 - 630	2 - 8	NZMS3-AX630	191495

Fixed mounting with box terminals			**Withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off
Terminals as accessory			NZMN3-AX250-AVE	191574	
NZMN3-AX400-BT	191586		NZMN3-AX400-AVE	191575	
NZMN3-AX630-BT	191587		NZMN3-AX630-AVE	191576	
-			Withdrawable units as accessory		
Terminals as accessory			-		1 Off
Terminals as accessory			-		
			NZMS3-AX400-AVE	191503	
			NZMS3-AX630-AVE	191504	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 3 pole
NZM...AX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range		Fixed mounting with screw terminals	
		Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

- IEC/EN 60947-2

High switching capacity


wa_ren_00418_r Symbolphoto

150	40	20 - 40	2 - 12	NZMH2-AX40	192007
	63	25 - 63	2 - 12	NZMH2-AX63	192008
	100	40 - 100	2 - 12	NZMH2-AX100	192009
	160	64 - 160	2 - 12	NZMH2-AX160	192010
	250	100 - 250	2 - 12	NZMH2-AX250	192011


wa_ren_00918_r Symbolphoto

	250	100 - 250	2 - 11	NZMH3-AX250	191346
	400	160 - 400	2 - 11	NZMH3-AX400	191347
	630	252 - 630	2 - 8	NZMH3-AX630	191348


wa_ren_01418_r Symbolphoto

85	630	252 - 630	2 - 12	NZMH4-AX630	191447
	800	320 - 800	2 - 12	NZMH4-AX800	191448
	1000	400 - 1000	2 - 12	NZMH4-AX1000	191449
	1250	500 - 1250	2 - 12	NZMH4-AX1250	191450
	1600	640 - 1600	2 - 12	NZMH4-AX1600	191451

Limiter switching capacity


wa_ren_01418_r Symbolphoto

100	630	252 - 630	2 - 12	NZML4-AX630	191363
	800	320 - 800	2 - 12	NZML4-AX800	191364
	1000	400 - 1000	2 - 12	NZML4-AX1000	191365
	1250	500 - 1250	2 - 12	NZML4-AX1250	191366
	1600	640 - 1600	2 - 12	NZML4-AX1600	191322

Fixed mounting with box terminals			**Withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off
Terminals as accessory			NZMH3-AX2500-AVE	191545	
			NZMH3-AX400-AVE	191546	
			NZMH3-AX630-AVE	191547	
-			Withdrawable units as accessory		
-			Withdrawable units as accessory		1 Off

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 3 pole
NZM...MX

Switching capacity	Rated current =	Setting range		Rated operational power		Rated operational current		Fixed mounting with screw terminals Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	AC-3 50/60 Hz		AC-3 50/60 Hz			
				400 V	690 V	400 V	690 V		
I_{cu}	$I_n = I_u$	$I_r = I_n x...$	$I_i = I_n x...$	P	P	I_e	I_e		
kA	A	A		kW	kW	A	A		

Motor protection

- IEC/EN 60947-2
- With phase-failure sensitivity

Normal switching capacity

wa_ren_00518_r Symbolphoto

50	90	36 - 90	2 - 18	45	75	81	78	NZMN2-MX90	191631
	140	56 - 140	2 - 18	75	132	134	134	NZMN2-MX140	191632
	220	88 - 220	2 - 14	110	200	196	202	NZMN2-MX220	191633

wa_ren_01018_r Symbolphoto

	220	88 - 220	2 - 18	110	200	196	202	NZMN3-MX220	191605
								-	
	350	140 - 350	2 - 15	200	315	349	316	NZMN3-MX350	191606
								-	
	450	180 - 450	2 - 12	250	450	437	446	NZMN3-MX450	191607
								-	

wa_ren_01518_r Symbolphoto

	550	275 - 550	2 - 18	315	560	544	550	NZMN4-MX550	191428
	875	438 - 875	2 - 18	500	800	846	785	NZMN4-MX875	191429
	1400	560 - 1400	2 - 14	800	1400	1354	1374	NZMN4-MX1400	191430

Strong switching capacity

wa_ren_00518_r Symbolphoto

70	90	36 - 90	2 - 18	45	75	81	78	NZMS2-MX90	191650
	140	56 - 140	2 - 18	75	132	134	134	NZMS2-MX140	191651
	220	88 - 220	2 - 14	110	200	196	202	NZMS2-MX220	191652

wa_ren_01018_r Symbolphoto

	220	88 - 220	2 - 18	110	200	196	202	NZMS3-MX220	191498
								-	
	350	140 - 350	2 - 15	200	315	349	316	NZMS3-MX350	191499
								-	
	450	180 - 450	2 - 12	250	450	437	446	NZMS3-MX450	191500
								-	

Fixed mounting with box terminals		**Plug-in/withdrawable units**		
Part no.	Article no.	Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types
see accessories

Terminals as accessory		NZMN2-MX90-SVE	191622	1 Off
		NZMN2-MX140-SVE	191623	
		NZMN2-MX220-SVE	191624	
Terminals as accessory		NZMN3-MX220-SVE	191596	
		NZMN3-MX220-AVE	191580	
		NZMN3-MX350-SVE	191597	
		NZMN3-MX350-AVE	191581	
		NZMN3-MX450-SVE	191598	
		NZMN3-MX450-AVE	191582	
Terminals as accessory		Withdrawable units as accessory		

Terminals as accessory		NZMS2-MX90-SVE	191656	1 Off
		NZMS2-MX140-SVE	191657	
		NZMS2-MX220-SVE	191658	
Terminals as accessory		NZMS3-MX220-SVE	191514	
		NZMS3-MX220-AVE	191507	
		NZMS3-MX350-SVE	191515	
		NZMS3-MX350-AVE	191508	
		NZMS3-MX450-SVE	191516	
		NZMS3-MX450-AVE	191509	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 3 pole
NZM...MX

Switching capacity	Rated current =	Setting range		Rated operational power		Rated operational current		Fixed mounting with screw terminals Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	AC-3 50/60 Hz		AC-3 50/60 Hz			
				400 V	690 V	400 V	690 V		
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$	P kW	P kW	I_e A	I_e A		

Motor protection

- IEC/EN 60947-2

High switching capacity

wa_ren_00518_r Symbolphoto

150	90	36 - 90	2 - 18	45	75	81	78	NZMH2-MX90	191681
	140	56 - 140	2 - 18	75	132	134	134	NZMH2-MX140	191682
	220	88 - 220	2 - 14	110	200	196	202	NZMH2-MX220	191683

wa_ren_01018_r Symbolphoto

	220	88 - 220	2 - 18	110	200	196	202	NZMH3-MX220	191352
								-	
	350	140 - 350	2 - 15	200	315	349	316	NZMH3-MX350	191367
								-	
	450	180 - 450	2 - 12	250	450	437	446	NZMH3-MX450	191368
								-	

wa_ren_01518_r Symbolphoto

85	550	275 - 550	2 - 18	315	560	544	550	NZMH4-MX550	191457
	875	438 - 875	2 - 18	500	800	846	785	NZMH4-MX875	191458
	1400	560 - 1400	2 - 14	800	1400	1354	1374	NZMH4-MX1400	191459

Limiter switching capacity

wa_ren_01518_r Symbolphoto

100	550	275 - 550	2 - 18	315	560	544	550	NZML4-MX550	191328
	875	438 - 875	2 - 18	500	800	846	785	NZML4-MX875	191329
	1400	560 - 1400	2 - 14	800	1400	1354	1374	NZML4-MX1400	191330

Fixed mounting with box terminals		**Plug-in/withdrawable units**		
Part no.	Article no.	Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types
see accessories

Terminals as accessory		NZMH2-MX90-SVE	191675	1 Off
		NZMH2-MX140-SVE	191676	
		NZMH2-MX220-SVE	191677	
Terminals as accessory		NZMH3-MX220-SVE	191372	
		NZMH3-MX220-AVE	191551	
		NZMH3-MX350-SVE	191373	
		NZMH3-MX350-AVE	191552	
		NZMH3-MX450-SVE	191374	
		NZMH3-MX450-AVE	191553	
Terminals as accessory		Withdrawable units as accessory		
Terminals as accessory		Withdrawable units as accessory		1 Off

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 3 pole
NZM...VX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Fixed mounting with screw terminals: Part no. / Article no.	
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

- IEC/EN 60947-2

Normal switching capacity

wa_ren_00618_r Symbolphoto

I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$		
50	40	20 - 40	2 - 10	2 - 18	NZMN2-VX40	192013
	63	25 - 63	2 - 10	2 - 18	NZMN2-VX63	192014
	100	40 - 100	2 - 10	2 - 18	NZMN2-VX100	191628
	160	64 - 160	2 - 10	2 - 18	NZMN2-VX160	191629
	250	100 - 250	2 - 10	2 - 12	NZMN2-VX250	191630

wa_ren_01118_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	NZMN3-VX250	191602
					-	
	400	160 - 400	2 - 10	2 - 12	NZMN3-VX400	191603
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMN3-VX630	191604
					-	

wa_ren_01618_r Symbolphoto

	630	252 - 630	2 - 10	2 - 18	NZMN4-VX630	191423
	800	320 - 800	2 - 10	2 - 18	NZMN4-VX800	191424
	1000	400 - 1000	2 - 10	2 - 18	NZMN4-VX1000	191425
	1250	500 - 1250	2 - 10	2 - 15	NZMN4-VX1250	191426
	1600	640 - 1600	2 - 10	2 - 12	NZMN4-VX1600	191427

Strong switching capacity

wa_ren_00618_r Symbolphoto

I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$		
70						
	40	20 - 40	2 - 10	2 - 18	NZMS2-VX40	192035
	63	25 - 63	2 - 10	2 - 18	NZMS2-VX63	192036
	100	40 - 100	2 - 10	2 - 18	NZMS2-VX100	191647
	160	64 - 160	2 - 10	2 - 18	NZMS2-VX160	191648
	250	100 - 250	2 - 10	2 - 12	NZMS2-VX250	191649

wa_ren_01118_r Symbolphoto

	250	125 - 250	2 - 10	2 - 18	NZMS3-VX250	192037
	400	160 - 400	2 - 10	2 - 12	NZMS3-VX400	191496
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMS3-VX630	191497
					-	

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off
NZMN2-VX100-BT	191625		NZMN2-VX100-SVE	191619	
NZMN2-VX160-BT	191626		NZMN2-VX160-SVE	191620	
NZMN2-VX250-BT	191627		NZMN2-VX250-SVE	191621	
Terminals as accessory			NZMN3-VX250-SVE	191593	
			NZMN3-VX250-AVE	191577	
NZMN3-VX400-BT	191588		NZMN3-VX400-SVE	191594	
Terminals as accessory			NZMN3-VX400-AVE	191578	
NZMN3-VX630-BT	191589		NZMN3-VX630-SVE	191595	
Terminals as accessory			NZMN3-VX630-AVE	191579	
-			NZMN4-VX630-AVE	191413	
-			NZMN4-VX800-AVE	191414	
-			NZMN4-VX1000-AVE	191415	
-			NZMN4-VX1250-AVE	191416	
-			NZMN4-VX1600-AVE	191417	
Terminals as accessory			-		1 Off
			NZMS2-VX100-SVE	191653	
			NZMS2-VX160-SVE	191654	
			NZMS2-VX250-SVE	191655	
Terminals as accessory			-		
			NZMS3-VX400-SVE	191512	
			NZMS3-VX400-AVE	191505	
			NZMS3-VX630-SVE	191513	
			NZMS3-VX630-AVE	191506	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 3 pole
NZM...VX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Fixed mounting with screw terminals: Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

- IEC/EN 60947-2

High switching capacity

wa_ren_00618_r Symbolphoto

I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$	Part no.	Article no.
150	40	20 - 40	2 - 10	2 - 18	NZMH2-VX40	192017
	63	25 - 63	2 - 10	2 - 18	NZMH2-VX63	192018
	100	40 - 100	2 - 10	2 - 18	NZMH2-VX100	191678
	160	64 - 160	2 - 10	2 - 18	NZMH2-VX160	191679
	250	100 - 250	2 - 10	2 - 12	NZMH2-VX250	191680

wa_ren_01118_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	NZMH3-VX250	191349
					-	
	400	160 - 400	2 - 10	2 - 12	NZMH3-VX400	191350
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMH3-VX630	191351
					-	

wa_ren_01618_r Symbolphoto

85	630	252 - 630	2 - 10	2 - 18	NZMH4-VX630	191452
	800	320 - 800	2 - 10	2 - 18	NZMH4-VX800	191453
	1000	400 - 1000	2 - 10	2 - 18	NZMH4-VX1000	191454
	1250	500 - 1250	2 - 10	2 - 15	NZMH4-VX1250	191455
	1600	640 - 1600	2 - 10	2 - 12	NZMH4-VX1600	191456

Limiter switching capacity

wa_ren_01618_r Symbolphoto

100	630	252 - 630	2 - 10	2 - 18	NZML4-VX630	191323
	800	320 - 800	2 - 10	2 - 18	NZML4-VX800	191324
	1000	400 - 1000	2 - 10	2 - 18	NZML4-VX1000	191325
	1250	500 - 1250	2 - 10	2 - 15	NZML4-VX1250	191326
	1600	640 - 1600	2 - 10	2 - 12	NZML4-VX1600	191327

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off
			NZMH2-VX100-SVE	191672	
			NZMH2-VX160-SVE	191673	
			NZMH2-VX250-SVE	191674	
Terminals as accessory			NZMH3-VX250-SVE	191369	
-			NZMH3-VX250-AVE	191548	
NZMH3-VX400-BT	191557		NZMH3-VX400-SVE	191370	
-			NZMH3-VX400-AVE	191549	
NZMH3-VX630-BT	191558		NZMH3-VX630-SVE	191371	
-			NZMH3-VX630-AVE	191550	
-			NZMH4-VX630-AVE	193328	
			NZMH4-VX800-AVE	193329	
			NZMH4-VX1000-AVE	193330	
			NZMH4-VX1250-AVE	193331	
			NZMH4-VX1600-AVE	193332	

-			Withdrawable units as accessory		1 Off

Compact circuit breakers, switch disconnectors

Circuit breakers, electronic releases, 3 pole
NZM...VX...-T

Fixed mounting with screw terminals

Switching capacity	Rated current =	Setting range				Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release Alarm or trip		
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x ...$	$I_i = I_n x...$	$I_G = I_n x...$		

System and cable protection, selectivity, generator and earth fault protection

- IEC/EN 60947-2

Normal switching capacity

wa_ren_00218_r Symbolphoto

50	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMN2-VX40-T	193287
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMN2-VX63-T	193288
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMN2-VX100-T	193289
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMN2-VX160-T	193290
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMN2-VX250-T	193291

wa_ren_01218_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMN3-VX250-T	191583
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMN3-VX400-T	191584
	630	252 - 630	1.5 - 7	2 - 8	125 - 630	NZMN3-VX630-T	191585

wa_ren_01718_r Symbolphoto

	630	315 - 630	2 - 10	2 - 18	125 - 630	NZMN4-VX630-T	193310
	800	400 - 800	2 - 10	2 - 18	160 - 800	NZMN4-VX800-T	193311
	1000	500 - 1000	2 - 10	2 - 18	200 - 1000	NZMN4-VX1000-T	193312
	1250	630 - 1250	2 - 10	2 - 15	250 - 1250	NZMN4-VX1250-T	193313
	1600	800 - 1600	2 - 10	2 - 12	320 - 1600	NZMN4-VX1600-T	193314

Fixed mounting with box terminals			**Withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		
				For further terminal types see accessories	
Terminals as accessory			-		1 Off
Terminals as accessory			NZMN3-VX250-T-AVE	191590	1 Off
			NZMN3-VX400-T-AVE	191591	
			NZMN3-VX630-T-AVE	191592	
-			Withdrawable units as accessory		1 Off

Compact circuit breakers, switch disconnectors

Circuit breakers, electronic releases, 3 pole
NZM...VX...-T

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release Alarm or trip	Fixed mounting with screw terminals: Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x ...$	$I_i = I_n x...$	$I_G = I_n x...$		

System and cable protection, selectivity, generator and earth fault protection

- IEC/EN 60947-2

Strong switching capacity


wa_ren_01218_r Symbolphoto

70	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-VX400-T	191501
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-VX630-T	191502

High switching capacity


wa_ren_00218_r Symbolphoto

150	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMH2-VX40-T	193293
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMH2-VX63-T	193294
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMH2-VX100-T	193295
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMH2-VX160-T	193296
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMH2-VX250-T	193297


wa_ren_01218_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMH3-VX250-T	191554
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMH3-VX400-T	191555
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMH3-VX630-T	191556


wa_ren_01718_r Symbolphoto

85	630	252 - 630	2 - 10	2 - 18	125 - 630	NZMH4-VX630-T	193315
	800	320 - 800	2 - 10	2 - 18	160 - 800	NZMH4-VX800-T	193316
	1000	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMH4-VX1000-T	193317
	1250	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMH4-VX1250-T	193318
	1600	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMH4-VX1600-T	193319

Fixed mounting with box terminals			**Withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMS3-VX400-T-AVE	191510	1 Off
			NZMS3-VX630-T-AVE	191511	
Terminals as accessory					1 Off
Terminals as accessory			NZMH3-VX250-T-AVE	191559	1 Off
			NZMH3-VX400-T-AVE	191560	
			NZMH3-VX630-T-AVE	191561	
-			Withdrawable units as accessory		1 Off

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole
NZM...PMX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range		Fixed mounting with screw terminals	
		Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

Motor protection

- Energy metering class I up to IEC61557-12
- With phase-failure sensitivity
- IEC/EN 60947-2

Normal switching capacity

wa_ren_00318_r Symbolphoto

50	40	20 - 40	2 - 18	NZMN2-PMX40	192104
	63	25 - 63	2 - 18	NZMN2-PMX63	192105
	100	40 - 100	2 - 18	NZMN2-PMX100	192106
	160	64 - 160	2 - 18	NZMN2-PMX160	192107
	220	88 - 220	2 - 14	NZMN2-PMX220	192108

wa_ren_00818_r Symbolphoto

	250	100 - 250	2 - 18	NZMN3-PMX250	192322
				-	
	350	140 - 350	2 - 15	NZMN3-PMX350	192323
				-	
	450	180 - 450	2 - 12	NZMN3-PMX450	192324
				-	

wa_ren_01818_r Symbolphoto

	550	220 - 550	2 - 18	NZMN4-PMX550	189681
	875	350 - 875	2 - 18	NZMN4-PMX875	189682
	1400	560 - 1400	2 - 14	NZMN4-PMX1400	189683

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMN2-PMX40-SVE	192116	1 Off
			NZMN2-PMX63-SVE	192117	
			NZMN2-PMX100-SVE	192118	
			NZMN2-PMX160-SVE	192119	
			NZMN2-PMX220-SVE	192120	
Terminals as accessory			NZMN3-PMX250-SVE	192328	
			NZMN3-PMX250-AVE	192334	
			NZMN3-PMX350-SVE	192329	
			NZMN3-PMX350-AVE	192335	
			NZMN3-PMX450-SVE	192330	
			NZMN3-PMX450-AVE	192336	
-			NZMN4-PMX550-AVE	189687	
			NZMN4-PMX875-AVE	189688	
			NZMN4-PMX1400-AVE	189689	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole
NZM...PMX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range		Fixed mounting with screw terminals	
		Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

Motor protection

- Energy metering class I up to IEC61557-12
- With phase-failure sensitivity
- IEC/EN 60947-2

High switching capacity

wa_ren_00318_r Symbolphoto

150	40	20 - 40	2 - 18	NZMH2-PMX40	192110
	63	25 - 63	2 - 18	NZMH2-PMX63	192111
	100	40 - 100	2 - 18	NZMH2-PMX100	192112
	160	64 - 160	2 - 18	NZMH2-PMX160	192113
	220	88 - 220	2 - 14	NZMH2-PMX220	192114

wa_ren_00818_r Symbolphoto

	250	100 - 250	2 - 18	NZMH3-PMX250	192325
				-	
	350	140 - 350	2 - 15	NZMH3-PMX350	192326
				-	
	450	180 - 450	2 - 12	NZMH3-PMX450	192327
				-	

wa_ren_01818_r Symbolphoto

85	550	220 - 550	2 - 18	NZMH4-PMX550	189684
	875	350 - 875	2 - 18	NZMH4-PMX875	189685
	1400	560 - 1400	2 - 14	NZMH4-PMX1400	189686

Limiter switching capacity

wa_ren_01818_r Symbolphoto

100	550	220 - 550	2 - 18	NZML4-PMX550	189706
	875	350 - 875	2 - 18	NZML4-PMX875	189707
	1400	560 - 1400	2 - 14	NZML4-PMX1400	189708

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMH2-PMX40-SVE	192122	1 Off
			NZMH2-PMX63-SVE	192123	
			NZMH2-PMX100-SVE	192124	
			NZMH2-PMX160-SVE	192125	
			NZMH2-PMX220-SVE	192126	
Terminals as accessory			NZMH3-PMX250-SVE	192331	
			NZMH3-PMX250-AVE	192337	
			NZMH3-PMX350-SVE	192332	
			NZMH3-PMX350-AVE	192338	
			NZMH3-PMX450-SVE	192333	
			NZMH3-PMX450-AVE	192339	
-			NZMH4-PMX550-AVE	189690	
			NZMH4-PMX875-AVE	189691	
			NZMH4-PMX1400-AVE	189692	

-	-	1 Off

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole
NZM...PX

Fixed mounting with screw terminals

Switching capacity	Rated current =	Setting range			Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed		
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2

Normal switching capacity

wa_ren_00318_r Symbolphoto

50	40	20 - 40	2 - 10	2 - 18	NZMN2-PX40	192237
	63	25 - 63	2 - 10	2 - 18	NZMN2-PX63	192238
	100	40 - 100	2 - 10	2 - 18	NZMN2-PX100	192239
	160	64 - 160	2 - 10	2 - 18	NZMN2-PX160	192240
	250	100 - 250	2 - 10	2 - 12	NZMN2-PX250	192241

wa_ren_00818_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	NZMN3-PX250	192354
					-	
	400	160 - 400	2 - 10	2 - 12	NZMN3-PX400	192355
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMN3-PX630	192356
					-	

wa_ren_01818_r Symbolphoto

	630	252 - 630	2 - 10	2 - 18	NZMN4-PX630	189601
	800	320 - 800	2 - 10	2 - 18	NZMN4-PX800	189602
	1000	400 - 1000	2 - 10	2 - 18	NZMN4-PX1000	189603
	1250	500 - 1250	2 - 10	2 - 15	NZMN4-PX1250	189604
	1600	640 - 1600	2 - 10	2 - 12	NZMN4-PX1600	189605

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types
see accessories

NZMN2-PX40-BT	192046		NZMN2-PX40-SVE	192162	1 Off
NZMN2-PX63-BT	192047		NZMN2-PX63-SVE	192163	
NZMN2-PX100-BT	192048		NZMN2-PX100-SVE	192164	
NZMN2-PX160-BT	192049		NZMN2-PX160-SVE	192165	
NZMN2-PX250-BT	192050		NZMN2-PX250-SVE	192166	
NZMN3-PX250-BT	192363		NZMN3-PX250-SVE	192264	
-			NZMN3-PX250-AVE	192348	
NZMN3-PX400-BT	192364		NZMN3-PX400-SVE	192340	
-			NZMN3-PX400-AVE	192349	
NZMN3-PX630-BT	192365		NZMN3-PX630-SVE	192341	
-			NZMN3-PX630-AVE	192350	
-			NZMN4-PX630-AVE	189621	
			NZMN4-PX800-AVE	189622	
			NZMN4-PX1000-AVE	189623	
			NZMN4-PX1250-AVE	189624	
			NZMN4-PX1600-AVE	189625	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole NZM...PX

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2

Strong switching capacity

wa_ren_00318_r Symbolphoto

70	40	20 - 40	2 - 10	2 - 18	NZMS2-PX40	192244
	63	25 - 63	2 - 10	2 - 18	NZMS2-PX63	192245
	100	40 - 100	2 - 10	2 - 18	NZMS2-PX100	192246
	160	64 - 160	2 - 10	2 - 18	NZMS2-PX160	192247
	250	100 - 250	2 - 10	2 - 12	NZMS2-PX250	192248

wa_ren_00818_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	NZMS3-PX250	192357
					-	
	400	160 - 400	2 - 10	2 - 12	NZMS3-PX400	192358
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMS3-PX630	192359
					-	

High switching capacity

wa_ren_00318_r Symbolphoto

150	40	20 - 40	2 - 10	2 - 18	NZMH2-PX40	192039
	63	25 - 63	2 - 10	2 - 18	NZMH2-PX63	192040
	100	40 - 100	2 - 10	2 - 18	NZMH2-PX100	192041
	160	64 - 160	2 - 10	2 - 18	NZMH2-PX160	192042
	250	100 - 250	2 - 10	2 - 12	NZMH2-PX250	192043

wa_ren_00818_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	NZMH3-PX250	192360
					-	
	400	160 - 400	2 - 10	2 - 12	NZMH3-PX400	192361
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMH3-PX630	192362
					-	

wa_ren_01818_r Symbolphoto

85	630	315 - 630	2 - 10	2 - 18	NZMH4-PX630	189606
	800	400 - 800	2 - 10	2 - 18	NZMH4-PX800	189607
	1000	500 - 1000	2 - 10	2 - 18	NZMH4-PX1000	189608
	1250	630 - 1250	2 - 10	2 - 15	NZMH4-PX1250	189609
	1600	800 - 1600	2 - 10	2 - 12	NZMH4-PX1600	189610

Fixed mounting with box terminals			Plug-in/withdrawable units		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMS2-PX40-BT	192127		NZMS2-PX40-SVE	192169	1 Off
NZMS2-PX63-BT	192128		NZMS2-PX63-SVE	192170	
NZMS2-PX100-BT	192129		NZMS2-PX100-SVE	192171	
NZMS2-PX160-BT	192130		NZMS2-PX160-SVE	192172	
NZMS2-PX250-BT	192131		NZMS2-PX250-SVE	192173	
NZMS3-PX250-BT	192366		NZMS3-PX250-SVE	192342	
-			NZMS3-PX250-AVE	192351	
NZMS3-PX400-BT	192367		NZMS3-PX400-SVE	192343	
-			NZMS3-PX400-AVE	192352	
NZMS3-PX630-BT	192251		NZMS3-PX630-SVE	192344	
-			NZMS3-PX630-AVE	192353	
NZMH2-PX40-BT	192134		NZMH2-PX40-SVE	192176	1 Off
NZMH2-PX63-BT	192135		NZMH2-PX63-SVE	192177	
NZMH2-PX100-BT	192136		NZMH2-PX100-SVE	192178	
NZMH2-PX160-BT	192137		NZMH2-PX160-SVE	192179	
NZMH2-PX250-BT	192138		NZMH2-PX250-SVE	192180	
NZMH3-PX250-BT	192252		NZMH3-PX250-SVE	192345	
-			NZMH3-PX250-AVE	192265	
NZMH3-PX400-BT	192253		NZMH3-PX400-SVE	192346	
-			NZMH3-PX400-AVE	192266	
NZMH3-PX630-BT	192254		NZMH3-PX630-SVE	192347	
-			NZMH3-PX630-AVE	192267	
-			NZMH4-PX630-AVE	189626	
			NZMH4-PX800-AVE	189627	
			NZMH4-PX1000-AVE	189628	
			NZMH4-PX1250-AVE	189629	
			NZMH4-PX1600-AVE	189630	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole NZM...PX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Fixed mounting with screw terminals: Part no.	Article no.	Std. pack
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$			
			I >	I >			

System and cable protection, selectivity and generator protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2

Limiter switching capacity

wa_ren_01818_r Symbolphoto

100	630	252 - 630	2 - 10	2 - 18	NZML4-PX630	189697	1 Off
	800	320 - 800	2 - 10	2 - 18	NZML4-PX800	189698	
	1000	400 - 1000	2 - 10	2 - 18	NZML4-PX1000	189699	
	1250	500 - 1250	2 - 10	2 - 15	NZML4-PX1250	189700	
	1600	640 - 1600	2 - 10	2 - 12	NZML4-PX1600	189701	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole NZM...PX...-TZ, ...-TAZ

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$	$I_G = I_n x...$		

System and cable protection, selectivity, generator and earth fault protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2
- NZM3, NZM4: with maintenance mode ARMs and zone-selective interlocking ZSI
- NZM2: with zone-selective interlocking ZSI

Normal switching capacity

wa_ren_00318_r Symbolphoto

50	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMN2-PX40-TZ	192141
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMN2-PX63-TZ	192142
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMN2-PX100-TZ	192143
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMN2-PX160-TZ	192144
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMN2-PX250-TZ	192145

wa_ren_00818_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMN3-PX250-TAZ	192255
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMN3-PX400-TAZ	192256
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMN3-PX630-TAZ	192257

wa_ren_01818_r Symbolphoto

	630	252 - 630	2 - 10	2 - 18	126 - 630	NZMN4-PX630-TAZ	189611
	800	320 - 800	2 - 10	2 - 18	160 - 800	NZMN4-PX800-TAZ	189612
	1000	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMN4-PX1000-TAZ	189613
	1250	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMN4-PX1250-TAZ	189614
	1600	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMN4-PX1600-TAZ	189615

Strong switching capacity

wa_ren_00318_r Symbolphoto

70	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMS2-PX40-TZ	192148
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMS2-PX63-TZ	192149
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMS2-PX100-TZ	192150
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMS2-PX160-TZ	192151
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMS2-PX250-TZ	192152

wa_ren_00818_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMS3-PX250-TAZ	192258
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-PX400-TAZ	192259
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-PX630-TAZ	192260

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMN2-PX40-TZ-SVE	192183	1 Off
			NZMN2-PX63-TZ-SVE	192184	
			NZMN2-PX100-TZ-SVE	192185	
			NZMN2-PX160-TZ-SVE	192186	
			NZMN2-PX250-TZ-SVE	192187	
Terminals as accessory			NZMN3-PX250-TAZ-AVE	192268	
			NZMN3-PX400-TAZ-AVE	192269	
			NZMN3-PX630-TAZ-AVE	192270	
-			NZMN4-PX630-TAZ-AVE	189631	
			NZMN4-PX800-TAZ-AVE	189632	
			NZMN4-PX1000-TAZ-AVE	189633	
			NZMN4-PX1250-TAZ-AVE	189634	
			NZMN4-PX1600-TAZ-AVE	189635	
Terminals as accessory			NZMS2-PX40-TZ-SVE	192190	1 Off
			NZMS2-PX63-TZ-SVE	192191	
			NZMS2-PX100-TZ-SVE	192192	
			NZMS2-PX160-TZ-SVE	192193	
			NZMS2-PX250-TZ-SVE	192194	
Terminals as accessory			NZMS3-PX250-TAZ-AVE	192271	
			NZMS3-PX400-TAZ-AVE	192272	
			NZMS3-PX630-TAZ-AVE	192273	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole
NZM...PX...-TZ, ...-TAZ

Fixed mounting with screw terminals

Switching capacity	Rated current =	Setting range				Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release		
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$	$I_G = I_n x...$		

System and cable protection, selectivity, generator and earth fault protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2
- NZM3, NZM4: with maintenance mode ARMs and zone-selective interlocking ZSI
- NZM2: with zone-selective interlocking ZSI

High switching capacity

sg04718_r Symbolphoto

150	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMH2-PX40-TZ	192155
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMH2-PX63-TZ	192156
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMH2-PX100-TZ	192157
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMH2-PX160-TZ	192158
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMH2-PX250-TZ	192159

wa_ren_00818_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMH3-PX250-TAZ	192261
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMH3-PX400-TAZ	192262
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMH3-PX630-TAZ	192263

wa_ren_01818_r Symbolphoto

85	630	252 - 630	2 - 10	2 - 18	126 - 630	NZMH4-PX630-TAZ	189616
	800	320 - 800	2 - 10	2 - 18	160 - 800	NZMH4-PX800-TAZ	189617
	1000	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMH4-PX1000-TAZ	189618
	1250	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMH4-PX1250-TAZ	189619
	1600	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMH4-PX1600-TAZ	189620

Fixed mounting with box terminals			**Withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMH2-PX40-TZ-SVE	192197	1 Off
			NZMH2-PX63-TZ-SVE	192198	
			NZMH2-PX100-TZ-SVE	192199	
			NZMH2-PX160-TZ-SVE	192200	
			NZMH2-PX250-TZ-SVE	192201	
Terminals as accessory			NZMH3-PX250-TAZ-AVE	192274	
			NZMH3-PX400-TAZ-AVE	192275	
			NZMH3-PX630-TAZ-AVE	192276	
-			NZMH4-PX630-TAZ-AVE	189636	
			NZMH4-PX800-TAZ-AVE	189637	
			NZMH4-PX1000-TAZ-AVE	189638	
			NZMH4-PX1250-TAZ-AVE	189639	
			NZMH4-PX1600-TAZ-AVE	189640	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, thermomagnetic releases, 4 pole
NZM...-4-A

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current		Setting range		Fixed mounting with screw terminals Part no. Article no.	
			Overload releases	Short-circuit releases Non-delayed		
	Phase conductor	Neutral conductor				
I_{cu}	$I_n = I_u$	$I_r = I_n$x... x % of phase conductor	$I_r = I_n$x...	$I_i = I_n$x...		
kA	A	%	A			

System and cable protection

- IEC/EN 60947-2

Basic switching capacity

1230PIC-784 Symbolphoto

25	20	100	15 - 20	350 A fixed	Screw terminals as accessories	
	25	100	20 - 25	350 A fixed		
	32	100	25 - 32	350 A fixed		
	40	100	32 - 40	8 - 10		
	50	100	40 - 50	6 - 10		
	63	100	50 - 63	6 - 10		
	80	100	63 - 80	6 - 10		
	100	100	80 - 100	6 - 10		
	125	100	100 - 125	6 - 10		
	160	100	125 - 160	1280 A fixed		

1230PIC-801 Symbolphoto

125	100	100 - 125	6 - 10	NZMB2-4-A125	265847
160	100	125 - 160	6 - 10	NZMB2-4-A160	265849
	60	125 - 160	6 - 10	NZMB2-4-A160/100	265850
200	100	160 - 200	6 - 10	NZMB2-4-A200	265852
	60	160 - 200	6 - 10	NZMB2-4-A200/125	265853
250	100	200 - 250	6 - 10	NZMB2-4-A250	265855
	60	200 - 250	6 - 10	NZMB2-4-A250/160	265856
300	100	240 - 300	5 - 8.3	NZMB2-4-A300	107582
	60	240 - 300	5 - 8.3	NZMB2-4-A300/200	107583

Fixed mounting with box terminals			**Plug-in units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		
					For further terminal types see accessories
NZMB1-4-A20	281237		-		1 Off
NZMB1-4-A25	281239				
NZMB1-4-A32	281241				
NZMB1-4-A40	265799				
NZMB1-4-A50	265801				
NZMB1-4-A63	265803				
NZMB1-4-A80	265805				
NZMB1-4-A100	265807				
NZMB1-4-A125	265809				
NZMB1-4-A160	281243				
Terminals as accessory			NZMB2-4-A125-SVE	113207	
			NZMB2-4-A160-SVE	113209	
			NZMB2-4-A160/100-SVE	113210	
			NZMB2-4-A200-SVE	113212	
			NZMB2-4-A200/125-SVE	113213	
			NZMB2-4-A250-SVE	113215	
			NZMB2-4-A250/160-SVE	113216	
			-		
			-		

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, thermomagnetic releases, 4 pole
NZM...-4-A

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current		Setting range		Fixed mounting with screw terminals Part no.	Article no.
			Overload releases	Short-circuit releases Non-delayed		
	Phase conductor	Neutral conductor				
I_{cu}	$I_n = I_u$	$I_r = I_n x...$ x % of phase conductor	$I_r = I_n x...$	$I_i = I_n x...$		
kA	A	%	A			

System and cable protection

- IEC/EN 60947-2

Comfort switching capacity

1230PIC-784 Symbolphoto

36	20	100	15 - 20	350 A fixed	Screw terminals as accessories	
	25	100	20 - 25	350 A fixed		
	32	100	25 - 32	350 A fixed		
	40	100	32 - 40	8 - 10		
	50	100	40 - 50	6 - 10		
	63	100	50 - 63	6 - 10		
	80	100	63 - 80	6 - 10		
	100	100	80 - 100	6 - 10		
	125	100	100 - 125	6 - 10		
	160	100	125 - 160	1280 A fixed		

1230PIC-801 Symbolphoto

	125	100	100 - 125	6 - 10	NZMC2-4-A125	271430
	160	100	125 - 160	6 - 10	NZMC2-4-A160	271432
		60	125 - 160	6 - 10	NZMC2-4-A160/100	271433
	200	100	160 - 200	6 - 10	NZMC2-4-A200	271435
		60	160 - 200	6 - 10	NZMC2-4-A200/125	271436
	250	100	200 - 250	6 - 10	NZMC2-4-A250	271438
		60	200 - 250	6 - 10	NZMC2-4-A250/160	271439
	300	100	240 - 300	5 - 8.3	NZMC2-4-A300	107584
		60	240 - 300	5 - 8.3	NZMC2-4-A300/200	107585

1230PIC-702 Symbolphoto

	320	100	250 - 320	6 - 10	-	
		60	250 - 320	6 - 10	-	
		100	250 - 320	6 - 10	NZMC3-4-A320	109688
		60	250 - 320	6 - 10	NZMC3-4-A320/200	109689
	400	100	320 - 400	6 - 10	-	
		60	320 - 400	6 - 10	-	
		100	320 - 400	6 - 10	NZMC3-4-A400	109690
		60	320 - 400	6 - 10	NZMC3-4-A400/250	109691
	500	100	400 - 500	6 - 10	-	
		60	400 - 500	6 - 10	-	
		100	400 - 500	6 - 10	NZMC3-4-A500	109692
		60	400 - 500	6 - 10	NZMC3-4-A500/320	109693

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMC1-4-A20	283300		-		1 Off
NZMC1-4-A25	283302		-		
NZMC1-4-A32	283304		-		
NZMC1-4-A40	271408		-		
NZMC1-4-A50	271410		-		
NZMC1-4-A63	271412		-		
NZMC1-4-A80	271414		-		
NZMC1-4-A100	271416		-		
NZMC1-4-A125	271418		-		
NZMC1-4-A160	283306		-		
Terminals as accessory			NZMC2-4-A125-SVE	113231	
			NZMC2-4-A160-SVE	113233	
			NZMC2-4-A160/100-SVE	113234	
			NZMC2-4-A200-SVE	113236	
			NZMC2-4-A200/125-SVE	113237	
			NZMC2-4-A250-SVE	113239	
			NZMC2-4-A250/160-SVE	113240	
			-		
			-		
Terminals as accessory			NZMC3-4-A320-SVE	168464	
			NZMC3-4-A320/200-SVE	168465	
			NZMC3-4-A320-AVE	113516	
			NZMC3-4-A320/200-AVE	113517	
			NZMC3-4-A400-SVE	168466	
			NZMC3-4-A400/250-SVE	168467	
			NZMC3-4-A400-AVE	113518	
			NZMC3-4-A400/250-AVE	113519	
			NZMC3-4-A500-SVE	168468	
			NZMC3-4-A500/320-SVE	168469	
			NZMC3-4-A500-AVE	113520	
			NZMC3-4-A500/320-AVE	113521	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, thermomagnetic releases, 4 pole
NZM...-4-A

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current		Setting range		Fixed mounting with screw terminals Part no.	Article no.
			Overload releases	Short-circuit releases Non-delayed		
	Phase conductor	Neutral conductor				
I_{cu}	$I_n = I_u$	$I_r = I_n x...$ x % of phase conductor	$I_r = I_n x...$	$I_i = I_n x...$		
kA	A	%	A			

System and cable protection

- IEC/EN 60947-2

Normal switching capacity

1230PIC-784 Symbolphoto

50	20	100	15 - 20	350 A fixed	Screw terminals as accessories	
	25	100	20 - 25	350 A fixed		
	32	100	25 - 32	350 A fixed		
	40	100	32 - 40	8 - 10		
	50	100	40 - 50	6 - 10		
	63	100	50 - 63	6 - 10		
	80	100	63 - 80	6 - 10		
	100	100	80 - 100	6 - 10		
	125	100	100 - 125	6 - 10		
	160	100	125 - 160	1280 A fixed		

1230PIC-801 Symbolphoto

	125	100	100 - 125	6 - 10	NZMN2-4-A125	265858
	160	100	125 - 160	6 - 10	NZMN2-4-A160	265860
		60	125 - 160	6 - 10	NZMN2-4-A160/100	265861
	200	100	160 - 200	6 - 10	NZMN2-4-A200	265863
		60	160 - 200	6 - 10	NZMN2-4-A200/125	265864
	250	100	200 - 250	6 - 10	NZMN2-4-A250	265866
		60	200 - 250	6 - 10	NZMN2-4-A250/160	265867
	300	100	240 - 300	5 - 8.3	NZMN2-4-A300	107586
		60	240 - 300	5 - 8.3	NZMN2-4-A300/200	107587

1230PIC-702 Symbolphoto

	320	100	250 - 320	6 - 10	-	
		60	250 - 320	6 - 10	-	
		100	250 - 320	6 - 10	NZMN3-4-A320	109694
		60	250 - 320	6 - 10	NZMN3-4-A320/200	109695
	400	100	320 - 400	6 - 10	-	
		60	320 - 400	6 - 10	-	
		100	320 - 400	6 - 10	NZMN3-4-A400	109696
		60	320 - 400	6 - 10	NZMN3-4-A400/250	109697
	500	100	400 - 500	6 - 10	-	
		60	400 - 500	6 - 10	-	
		100	400 - 500	6 - 10	NZMN3-4-A500	109698
		60	400 - 500	6 - 10	NZMN3-4-A500/320	109699

Fixed mounting with box terminals			**Withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMN1-4-A20	281245		-		1 Off
NZMN1-4-A25	281247		-		
NZMN1-4-A32	281249		-		
NZMN1-4-A40	265811		-		
NZMN1-4-A50	265813		-		
NZMN1-4-A63	265815		-		
NZMN1-4-A80	265817		-		
NZMN1-4-A100	265819		-		
NZMN1-4-A125	265821		-		
NZMN1-4-A160	281251		-		
Terminals as accessory			NZMN2-4-A125-SVE	113264	
NZMN2-4-A160-BT	147393		NZMN2-4-A160-SVE	113266	
Terminals as accessory			NZMN2-4-A160/100-SVE	113267	
NZMN2-4-A200-BT	147394		NZMN2-4-A200-SVE	113269	
Terminals as accessory			NZMN2-4-A200/125-SVE	113270	
NZMN2-4-A250-BT	147395		NZMN2-4-A250-SVE	113272	
Terminals as accessory			NZMN2-4-A250/160-SVE	113273	
			-		
			-		
Terminals as accessory			NZMN3-4-A320-SVE	168508	
			NZMN3-4-A320/200-SVE	168509	
			NZMN3-4-A320-AVE	113532	
			NZMN3-4-A320/200-AVE	113533	
			NZMN3-4-A400-SVE	168510	
			NZMN3-4-A400/250-SVE	168511	
			NZMN3-4-A400-AVE	113534	
			NZMN3-4-A400/250-AVE	113535	
			NZMN3-4-A500-SVE	168512	
			NZMN3-4-A500/320-SVE	168513	
			NZMN3-4-A500-AVE	113536	
			NZMN3-4-A500/320-AVE	113537	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, thermomagnetic releases, 4 pole
NZM...-4-A

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current		Setting range		Fixed mounting with screw terminals Part no.	Article no.
			Overload releases	Short-circuit releases Non-delayed		
	Phase conductor	Neutral conductor				
I_{cu}	$I_n = I_u$	$I_r = I_n x...$ x % of phase conductor	$I_r = I_n x...$	$I_i = I_n x...$		
kA	A	%	A			

System and cable protection

- IEC/EN 60947-2

Strong switching capacity

1230PIC-784 Symbolphoto

70	20	100	16 - 20	350 A fixed	Screw terminals as accessories	
	25	100	20 - 25	350 A fixed		
	32	100	25 - 32	350 A fixed		
	40	100	32 - 40	8 - 10		
	50	100	40 - 50	6 - 10		
	63	100	50 - 63	6 - 10		
	80	100	63 - 80	6 - 10		
	100	100	80 - 100	6 - 10		
	125	100	100 - 125	6 - 10		
	160	100	125 - 160	1280 A fixed		

1230PIC-801 Symbolphoto

	125	100	100 - 125	6 - 10	NZMS2-4-A125	109988
	160	100	125 - 160	6 - 10	NZMS2-4-A160	109989
	160	60	125 - 160	6 - 10	NZMS2-4-A160/100	109990
	200	100	160 - 200	6 - 10	NZMS2-4-A200	109991
	200	60	160 - 200	6 - 10	NZMS2-4-A200/125	109992
	250	100	200 - 250	6 - 10	NZMS2-4-A250	109993
	250	60	200 - 250	6 - 10	NZMS2-4-A250/160	109994
	300	100	240 - 300	5 - 8.3	NZMS2-4-A300	110205
	300	60	240 - 300	5 - 8.3	NZMS2-4-A300/200	110206

Fixed mounting with box terminals			**Plug-in units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		
					For further terminal types see accessories
NZMS1-4-A20	109948		-		1 Off
NZMS1-4-A25	109949				
NZMS1-4-A32	109950				
NZMS1-4-A40	109951				
NZMS1-4-A50	109952				
NZMS1-4-A63	109953				
NZMS1-4-A80	109954				
NZMS1-4-A100	109955				
NZMS1-4-A125	109956				
NZMS1-4-A160	109957				
Terminals as accessory			NZMS2-4-A125-SVE	113313	
			NZMS2-4-A160-SVE	113314	
			NZMS2-4-A160/100-SVE	113315	
			NZMS2-4-A200-SVE	113316	
			NZMS2-4-A200/125-SVE	113317	
			NZMS2-4-A250-SVE	113318	
			NZMS2-4-A250/160-SVE	113319	
			-		
			-		

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, thermomagnetic releases, 4 pole
NZM...-4-A

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current		Setting range		Fixed mounting with screw terminals Part no.	Article no.
			Overload releases	Short-circuit releases Non-delayed		
	Phase conductor	Neutral conductor				
I_{cu}	$I_n = I_u$	$I_r = I_n x...$ x % of phase conductor	$I_r = I_n x...$	$I_i = I_n x...$		
kA	A	%	A			

System and cable protection

- IEC/EN 60947-2

High switching capacity


1230PIC-784 Symbolphoto

100	20	100	15 - 20	350 A fixed	Screw terminals as accessories	
	25	100	20 - 25	350 A fixed		
	32	100	25 - 32	350 A fixed		
	40	100	32 - 40	8 - 10		
	50	100	40 - 50	6 - 10		
	63	100	50 - 63	6 - 10		
	80	100	63 - 80	6 - 10		
	100	100	80 - 100	6 - 10		
	125	100	100 - 125	6 - 10		
	160	100	125 - 160	1280 A fixed		


1230PIC-801 Symbolphoto

150	20	100	15 - 20	350 A fixed	NZMH2-4-A20	281287
	25	100	20 - 25	350 A fixed	NZMH2-4-A25	281289
	32	100	25 - 32	350 A fixed	NZMH2-4-A32	281291
	40	100	32 - 40	8 - 10	NZMH2-4-A40	265823
	50	100	40 - 50	6 - 10	NZMH2-4-A50	265825
	63	100	50 - 63	6 - 10	NZMH2-4-A63	265827
	80	100	63 - 80	6 - 10	NZMH2-4-A80	265829
	100	100	80 - 100	6 - 10	NZMH2-4-A100	265831
	125	100	100 - 125	6 - 10	NZMH2-4-A125	265833
	160	100	125 - 160	6 - 10	NZMH2-4-A160	265871
		60	125 - 160	6 - 10	NZMH2-4-A160/100	265872
	200	100	160 - 200	6 - 10	NZMH2-4-A200	265874
		60	160 - 200	6 - 10	NZMH2-4-A200/125	265875
	250	100	200 - 250	6 - 10	NZMH2-4-A250	265877
		60	200 - 250	6 - 10	NZMH2-4-A250/160	265878
	300	100	240 - 300	5 - 8.3	NZMH2-4-A300	107588
		60	240 - 300	5 - 8.3	NZMH2-4-A300/200	107589


1230PIC-702 Symbolphoto

	320	100	250 - 320	6 - 10	NZMH3-4-A320	109700
		60	250 - 320	6 - 10	NZMH3-4-A320/200	109701
		100	250 - 320	6 - 10	-	
		60	250 - 320	6 - 10	-	
	400	100	320 - 400	6 - 10	NZMH3-4-A400	109702
		60	320 - 400	6 - 10	NZMH3-4-A400/250	109703
		100	320 - 400	6 - 10	-	
		60	320 - 400	6 - 10	-	
	500	100	400 - 500	6 - 10	NZMH3-4-A500	109704
		60	400 - 500	6 - 10	NZMH3-4-A500/320	109705
		100	400 - 500	6 - 10	-	
		60	400 - 500	6 - 10	-	

Fixed mounting with box terminals			Withdrawable units		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMH1-4-A20	284416		-	1 Off
NZMH1-4-A25	284418			
NZMH1-4-A32	284420			
NZMH1-4-A40	284422			
NZMH1-4-A50	284424			
NZMH1-4-A63	284426			
NZMH1-4-A80	284428			
NZMH1-4-A100	284430			
NZMH1-4-A125	284432			
NZMH1-4-A160	284434			
Terminals as accessory			NZMH2-4-A20-SVE	113396
			NZMH2-4-A25-SVE	113398
			NZMH2-4-A32-SVE	113400
			NZMH2-4-A40-SVE	113367
			NZMH2-4-A50-SVE	113369
			NZMH2-4-A63-SVE	113371
			NZMH2-4-A80-SVE	113373
			NZMH2-4-A100-SVE	113375
			NZMH2-4-A125-SVE	113377
			NZMH2-4-A160-SVE	113379
			NZMH2-4-A160/100-SVE	113380
			NZMH2-4-A200-SVE	113382
			NZMH2-4-A200/125-SVE	113383
			NZMH2-4-A250-SVE	113385
			NZMH2-4-A250/160-SVE	113386
			-	
			-	
Terminals as accessory			NZMH3-4-A320-SVE	168889
			NZMH3-4-A320/200-SVE	168890
			NZMH3-4-A320-AVE	113578
			NZMH3-4-A320/200-AVE	113579
			NZMH3-4-A400-SVE	168891
			NZMH3-4-A400/250-SVE	168892
			NZMH3-4-A400-AVE	113580
			NZMH3-4-A400/250-AVE	113581
			NZMH3-4-A500-SVE	168893
			NZMH3-4-A500/320-SVE	168894
			NZMH3-4-A500-AVE	113582
			NZMH3-4-A500/320-AVE	113583

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 4 pole
NZM...-4-AX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range Overload releases	Setting range Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

- IEC/EN 60947-2

Normal switching capacity

wa_ren_00418_r Symbolphoto

50	40	100	20 - 40	2 - 12	NZMN2-4-AX40	193357
	63	100	25 - 63	2 - 12	NZMN2-4-AX63	193358
	100	100	40 - 100	2 - 12	NZMN2-4-AX100	193359
	160	100	64 - 160	2 - 12	NZMN2-4-AX160	193360
	250	100	100 - 250	2 - 12	NZMN2-4-AX250	193361

wa_ren_00918_r Symbolphoto

400	100	160 - 400	2 - 11	NZMN3-4-AX400	191486
	0.60, 100	160 - 400	2 - 11	NZMN3-4-AX400/VAR	191487
630	100	252 - 630	2 - 8	NZMN3-4-AX630	191488
	0.60, 100	252 - 630	2 - 8	NZMN3-4-AX630/VAR	191489

wa_ren_01418_r Symbolphoto

800	100	320 - 800	2 - 12	NZMN4-4-AX800	191431
	0.60, 100	320 - 800	2 - 12	NZMN4-4-AX800/VAR	191432
1000	100	400 - 1000	2 - 12	NZMN4-4-AX1000	191433
	0.60, 100	400 - 1000	2 - 12	NZMN4-4-AX1000/VAR	191434
1250	100	500 - 1250	2 - 12	NZMN4-4-AX1250	191435
	0.60, 100	500 - 1250	2 - 12	NZMN4-4-AX1250/VAR	191436
1600	100	640 - 1600	2 - 12	NZMN4-4-AX1600	191437
	0.60, 100	640 - 1600	2 - 12	NZMN4-4-AX1600/VAR	191438

Strong switching capacity

wa_ren_00418_r Symbolphoto

70	40	100	20 - 40	2 - 12	NZMS2-4-AX40	193371
	63	100	25 - 63	2 - 12	NZMS2-4-AX63	193372
	100	100	40 - 100	2 - 12	NZMS2-4-AX100	193373
	160	100	64 - 160	2 - 12	NZMS2-4-AX160	193374
	250	100	100 - 250	2 - 12	NZMS2-4-AX250	193375

wa_ren_00918_r Symbolphoto

400	100	160 - 400	2 - 11	NZMS3-4-AX400	191517
	0.60, 100	160 - 400	2 - 11	NZMS3-4-AX400/VAR	191518
630	100	252 - 630	2 - 8	NZMS3-4-AX630	191519
	0.60, 100	252 - 630	2 - 8	NZMS3-4-AX630/VAR	191520

Fixed mounting with box terminals			**Withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off

NZMN3-4-AX400-BT	191612		NZMN3-4-AX400-AVE	191608
Terminals as accessory			NZMN3-4-AX400/VAR-AVE	191614
NZMN3-4-AX630-BT	191613		NZMN3-4-AX630-AVE	191609
Terminals as accessory			NZMN3-4-AX630/VAR-AVE	191615

Terminals as accessory			Withdrawable units as accessory	

Terminals as accessory			-		1 Off

Terminals as accessory			NZMS3-4-AX400-AVE	191529
			NZMS3-4-AX400/VAR-AVE	191530
			NZMS3-4-AX630-AVE	191531
			NZMS3-4-AX630/VAR-AVE	191532

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 4 pole
NZM...-4-AX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range		Fixed mounting with screw terminals	
			Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

- IEC/EN 60947-2

High switching capacity

wa_ren_00418_r Symbolphoto

150	40	100	20 - 40	2 - 12	NZMH2-4-AX40	193364
	63	100	25 - 63	2 - 12	NZMH2-4-AX63	193365
	100	100	40 - 100	2 - 12	NZMH2-4-AX100	193366
	160	100	64 - 160	2 - 12	NZMH2-4-AX160	193367
	250	100	100 - 250	2 - 12	NZMH2-4-AX250	193368

wa_ren_00918_r Symbolphoto

	400	100	160 - 400	2 - 11	NZMH3-4-AX400	191387
		0.60, 100	160 - 400	2 - 11	NZMH3-4-AX400/VAR	191388
	630	100	252 - 630	2 - 8	NZMH3-4-AX630	191389
		0.60, 100	252 - 630	2 - 8	NZMH3-4-AX630/VAR	191390

wa_ren_01418_r Symbolphoto

85	800	100	320 - 800	2 - 12	NZMH4-4-AX800	191473
		0.60, 100	320 - 800	2 - 12	NZMH4-4-AX800/VAR	191474
	1000	100	400 - 1000	2 - 12	NZMH4-4-AX1000	191475
		0.60, 100	400 - 1000	2 - 12	NZMH4-4-AX1000/VAR	191476
	1250	100	500 - 1250	2 - 12	NZMH4-4-AX1250	191477
		0.60, 100	500 - 1250	2 - 12	NZMH4-4-AX1250/VAR	191478
	1600	100	640 - 1600	2 - 12	NZMH4-4-AX1600	191353
		0.60, 100	640 - 1600	2 - 12	NZMH4-4-AX1600/VAR	191354

Limiter switching capacity

wa_ren_01418_r Symbolphoto

100	800	100	320 - 800	2 - 12	NZML4-4-AX800	191331
		0.60, 100	320 - 800	2 - 12	NZML4-4-AX800/VAR	191332
	1000	100	400 - 1000	2 - 12	NZML4-4-AX1000	191333
		0.60, 100	400 - 1000	2 - 12	NZML4-4-AX1000/VAR	191334
	1250	100	500 - 1250	2 - 12	NZML4-4-AX1250	191335
		0.60, 100	500 - 1250	2 - 12	NZML4-4-AX1250/VAR	191336
	1600	100	640 - 1600	2 - 12	NZML4-4-AX1600	191337
		0.60, 100	640 - 1600	2 - 12	NZML4-4-AX1600/VAR	191338

Fixed mounting with box terminals			**Withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off
Terminals as accessory			NZMH3-4-AX400-AVE	191375	
			NZMH3-4-AX400/VAR-AVE	191379	
			NZMH3-4-AX630-AVE	191376	
			NZMH3-4-AX630/VAR-AVE	191380	
-			-		
-			Withdrawable units as accessory		1 Off

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 4 pole
NZM...-4-VX

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n x...$ A	$I_{sd} = I_r x$ ...	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

- IEC/EN 60947-2

Normal switching capacity

wa_ren_00618_r Symbolphoto

50	100	100	40 - 100	2 - 10	2 - 18	NZMN2-4-VX100	191642
	160	100	64 - 160	2 - 10	2 - 18	NZMN2-4-VX160	191643
		0.60, 100	64 - 160	2 - 10	2 - 18	NZMN2-4-VX160/VAR	191644
	250	100	100 - 250	2 - 10	2 - 12	NZMN2-4-VX250	191645
		0.60, 100	100 - 250	2 - 10	2 - 12	NZMN2-4-VX250/VAR	191646

wa_ren_01118_r Symbolphoto

	400	100	160 - 400	2 - 10	2 - 12	NZMN3-4-VX400	191490
		100	160 - 400	2 - 10	2 - 12	-	
		0.60, 100	160 - 400	2 - 10	2 - 12	NZMN3-4-VX400/VAR	191491
		0.60, 100	160 - 400	2 - 10	2 - 12	-	
	630	100	252 - 630	1.5 - 7	2 - 8	NZMN3-4-VX630	191492
		100	252 - 630	1.5 - 7	2 - 8	-	
		0.60, 100	252 - 630	1.5 - 7	2 - 8	NZMN3-4-VX630/VAR	191493
		0.60, 100	252 - 630	1.5 - 7	2 - 8	-	

wa_ren_01618_r Symbolphoto

	800	100	320 - 800	2 - 10	2 - 18	NZMN4-4-VX800	191439
		0.60, 100	320 - 800	2 - 10	2 - 18	NZMN4-4-VX800/VAR	191440
	1000	100	400 - 1000	2 - 10	2 - 18	NZMN4-4-VX1000	191441
		0.60, 100	400 - 1000	2 - 10	2 - 18	NZMN4-4-VX1000/VAR	191442
	1250	100	500 - 1250	2 - 10	2 - 15	NZMN4-4-VX1250	191443
		0.60, 100	500 - 1250	2 - 10	2 - 15	NZMN4-4-VX1250/VAR	191444
	1600	100	640 - 1600	2 - 10	2 - 12	NZMN4-4-VX1600	191445
		0.60, 100	640 - 1600	2 - 10	2 - 12	NZMN4-4-VX1600/VAR	191446

Switch disconnectors IEC, electronic releases, 4 pole
NZM...-4-VX

Fixed mounting with box terminals			**Withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		
					For further terminal types see accessories
NZMN2-4-VX100-BT	191639		NZMN2-4-VX100-SVE	191634	1 Off
NZMN2-4-VX160-BT	191640		NZMN2-4-VX160-SVE	191635	
Terminals as accessory			NZMN2-4-VX160/VAR-SVE	191636	
NZMN2-4-VX250-BT	191641		NZMN2-4-VX250-SVE	191637	
Terminals as accessory			NZMN2-4-VX250/VAR-SVE	191638	
Terminals as accessory			NZMN3-4-VX400-SVE	191482	
			NZMN3-4-VX400-AVE	191610	
			NZMN3-4-VX400/VAR-SVE	191484	
			NZMN3-4-VX400/VAR-AVE	191616	
			NZMN3-4-VX630-SVE	191483	
			NZMN3-4-VX630-AVE	191611	
			NZMN3-4-VX630/VAR-SVE	191485	
			NZMN3-4-VX630/VAR-AVE	191617	
-			NZMN4-4-VX800-AVE	193333	
			Withdrawable units as accessory		
			NZMN4-4-VX1000-AVE	193334	
			Withdrawable units as accessory		
			NZMN4-4-VX1250-AVE	193335	
			Withdrawable units as accessory		
			NZMN4-4-VX1600-AVE	193336	
			Withdrawable units as accessory		

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 4 pole
NZM...-4-VX

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range			Part no.	Article no.
			Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed		
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...		
				I >	I >		

System and cable protection, selectivity and generator protection

- IEC/EN 60947-2

Strong switching capacity

wa_ren_00618_r Symbolphoto

70	100	100	40 - 100	2 - 10	2 - 18	NZMS2-4-VX100	191659
	160	100	64 - 160	2 - 10	2 - 18	NZMS2-4-VX160	191660
		0.60, 100	64 - 160	2 - 10	2 - 18	NZMS2-4-VX160/VAR	191661
	250	100	100 - 250	2 - 10	2 - 12	NZMS2-4-VX250	191662
		0.60, 100	100 - 250	2 - 10	2 - 12	NZMS2-4-VX250/VAR	191663

wa_ren_01118_r Symbolphoto

	400	100	160 - 400	2 - 10	2 - 12	NZMS3-4-VX400	191521
		100	160 - 400	2 - 10	2 - 12	-	
		0.60, 100	160 - 400	2 - 10	2 - 12	NZMS3-4-VX400/VAR	191522
		0.60, 100	160 - 400	2 - 10	2 - 12	-	
	630	100	252 - 630	1.5 - 7	2 - 8	NZMS3-4-VX630	191523
		100	252 - 630	1.5 - 7	2 - 8	-	
		0.60, 100	252 - 630	1.5 - 7	2 - 8	NZMS3-4-VX630/VAR	191524
		0.60, 100	252 - 630	1.5 - 7	2 - 8	-	

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types
see accessories

Terminals as accessory			NZMS2-4-VX100-SVE	191664	1 Off
			NZMS2-4-VX160-SVE	191665	
			NZMS2-4-VX160/VAR-SVE	191666	
			NZMS2-4-VX250-SVE	191667	
			NZMS2-4-VX250/VAR-SVE	191668	
Terminals as accessory			NZMS3-4-VX400-SVE	191541	
			NZMS3-4-VX400-AVE	191533	
			NZMS3-4-VX400/VAR-SVE	191542	
			NZMS3-4-VX400/VAR-AVE	191534	
			NZMS3-4-VX630-SVE	191543	
			NZMS3-4-VX630-AVE	191535	
			NZMS3-4-VX630/VAR-SVE	191544	
			NZMS3-4-VX630/VAR-AVE	191536	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 4 pole
NZM...-4-VX

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range			Fixed mounting with screw terminals Part no.	Article no.
			Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed		
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...		
				I >	I >		

System and cable protection, selectivity and generator protection

- IEC/EN 60947-2

High switching capacity

wa_ren_00618_r Symbolphoto

150	100	100	40 - 100	2 - 10	2 - 18	NZMH2-4-VX100	191689
	160	100	64 - 160	2 - 10	2 - 18	NZMH2-4-VX160	191690
		0.60, 100	64 - 160	2 - 10	2 - 18	NZMH2-4-VX160/VAR	191691
	250	100	100 - 250	2 - 10	2 - 12	NZMH2-4-VX250	191692
		0.60, 100	100 - 250	2 - 10	2 - 12	NZMH2-4-VX250/VAR	191693

wa_ren_01118_r Symbolphoto

	400	100	160 - 400	2 - 10	2 - 12	NZMH3-4-VX400	191391
		100	160 - 400	2 - 10	2 - 12	-	
		0.60, 100	160 - 400	2 - 10	2 - 12	NZMH3-4-VX400/VAR	191392
		0.60, 100	160 - 400	2 - 10	2 - 12	-	
	630	100	252 - 630	1.5 - 7	2 - 8	NZMH3-4-VX630	191393
		100	252 - 630	1.5 - 7	2 - 8	-	
		0.60, 100	252 - 630	1.5 - 7	2 - 8	NZMH3-4-VX630/VAR	191394
		0.60, 100	252 - 630	1.5 - 7	2 - 8	-	

wa_ren_01618_r Symbolphoto

85	800	100	320 - 800	2 - 10	2 - 18	NZMH4-4-VX800	191355
		0.60, 100	320 - 800	2 - 10	2 - 18	NZMH4-4-VX800/VAR	191356
	1000	100	400 - 1000	2 - 10	2 - 18	NZMH4-4-VX1000	191357
		0.60, 100	400 - 1000	2 - 10	2 - 18	NZMH4-4-VX1000/VAR	191358
	1250	100	500 - 1250	2 - 10	2 - 15	NZMH4-4-VX1250	191359
		0.60, 100	500 - 1250	2 - 10	2 - 15	NZMH4-4-VX1250/VAR	191360
	1600	100	640 - 1600	2 - 10	2 - 12	NZMH4-4-VX1600	191361
		0.60, 100	640 - 1600	2 - 10	2 - 12	NZMH4-4-VX1600/VAR	191362

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types
see accessories

Terminals as accessory			NZMH2-4-VX100-SVE	191684	1 Off
			NZMH2-4-VX160-SVE	191685	
			NZMH2-4-VX160/VAR-SVE	191686	
			NZMH2-4-VX250-SVE	191687	
			NZMH2-4-VX250/VAR-SVE	191688	
Terminals as accessory			NZMH3-4-VX400-SVE	191395	
			NZMH3-4-VX400-AVE	191377	
			NZMH3-4-VX400/VAR-SVE	191397	
			NZMH3-4-VX400/VAR-AVE	191381	
			NZMH3-4-VX630-SVE	191396	
			NZMH3-4-VX630-AVE	191378	
			NZMH3-4-VX630/VAR-SVE	191398	
			NZMH3-4-VX630/VAR-AVE	191382	
-			NZMH4-4-VX800-AVE	193337	
			Withdrawable units as accessory		
			NZMH4-4-VX1000-AVE	193338	
			Withdrawable units as accessory		
			NZMH4-4-VX1250-AVE	193339	
			Withdrawable units as accessory		
			NZMH4-4-VX1600-AVE	193340	
			Withdrawable units as accessory		

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 4 pole
NZM...-4-VX...-T

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release	Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...	$I_G = I_n$x...		

System and cable protection, selectivity, generator and earth fault protection

- IEC/EN 60947-2

Normal switching capacity

wa_ren_00218_r Symbolphoto

50	40	100	20 - 40	2 - 10	2 - 18	20 - 40	NZMN2-4-VX40-T	193299
	63	100	25 - 63	2 - 10	2 - 18	20 - 63	NZMN2-4-VX63-T	193300
	100	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMN2-4-VX100-T	193301
	160	100	64 - 160	2 - 10	2 - 18	32 - 160	NZMN2-4-VX160-T	193302
	250	100	100 - 250	2 - 10	2 - 12	50 - 250	NZMN2-4-VX250-T	193303

wa_ren_01218_r Symbolphoto

	400	100	160 - 400	2 - 10	2 - 12	80 - 400	NZMN3-4-VX400-T	191480
	630	100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMN3-4-VX630-T	191481

wa_ren_01718_r Symbolphoto

	800	100	320 - 800	2 - 10	2 - 18	160 - 800	NZMN4-4-VX800-T	193320
	1000	100	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMN4-4-VX1000-T	193321
	1250	100	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMN4-4-VX1250-T	193322
	1600	100	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMN4-4-VX1600-T	193323

Strong switching capacity

wa_ren_01218_r Symbolphoto

70	400	100	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-4-VX400-T	191525
		0.60, 100	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-4-VX400/VAR-T	191526
	630	100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-4-VX630-T	191527
		0.60, 100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-4-VX630/VAR-T	191528

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off

Terminals as accessory			NZMN3-4-VX400-T-AVE	191618	1 Off
			NZMN3-4-VX630-T-AVE	191479	

-			Withdrawable units as accessory		1 Off

Terminals as accessory			NZMS3-4-VX400-T-AVE	191537	1 Off
			NZMS3-4-VX400/VAR-T-AVE	191538	
			NZMS3-4-VX630-T-AVE	191539	
			NZMS3-4-VX630/VAR-T-AVE	191540	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases, 4 pole
NZM...-4-VX...-T

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range				Part no.	Article no.
			Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release		
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...	$I_G = I_n$x...		

System and cable protection, selectivity, generator and earth fault protection

- IEC/EN 60947-2

High switching capacity

wa_ren_00218_r Symbolphoto

150	40	100	20 - 40	2 - 10	2 - 18	20 - 40	NZMH2-4-VX40-T	193305
	63	100	25 - 63	2 - 10	2 - 18	20 - 63	NZMH2-4-VX63-T	193306
	100	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMH2-4-VX100-T	193307
	160	100	64 - 160	2 - 10	2 - 18	32 - 160	NZMH2-4-VX160-T	193308
	250	100	100 - 250	2 - 10	2 - 12	50 - 250	NZMH2-4-VX250-T	193309

wa_ren_01218_r Symbolphoto

	400	100	160 - 400	2 - 10	2 - 12	80 - 400	NZMH3-4-VX400-T	191385
	630	100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMH3-4-VX630-T	191386

wa_ren_01718_r Symbolphoto

85	800	100	320 - 800	2 - 10	2 - 18	160 - 800	NZMH4-4-VX800-T	193324
	1000	100	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMH4-4-VX1000-T	193325
	1250	100	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMH4-4-VX1250-T	193326
	1600	100	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMH4-4-VX1600-T	193327

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		
					For further terminal types see accessories
Terminals as accessory			-		1 Off
Terminals as accessory			NZMH3-4-VX400-T-AVE	191383	1 Off
			NZMH3-4-VX630-T-AVE	191384	
-			Withdrawable units as accessory		1 Off

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 4 pole NZM...PX

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range			Part no.	Article no.
			Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed		
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...		

System and cable protection

- IEC/EN 60947-2

Normal switching capacity

wa_ren_00318_r Symbolphoto

50	40	0.60, 100	20 - 40	2 - 10	2 - 18	NZMN2-4-PX40/VAR	192204
	63	0.60, 100	25 - 63	2 - 10	2 - 18	NZMN2-4-PX63/VAR	192205
	100	0.60, 100	40 - 100	2 - 10	2 - 18	NZMN2-4-PX100/VAR	192206
	160	0.60, 100	64 - 160	2 - 10	2 - 18	NZMN2-4-PX160/VAR	192207
	250	0.60, 100	100 - 250	2 - 10	2 - 12	NZMN2-4-PX250/VAR	192208

wa_ren_00818_r Symbolphoto

	250	0.60, 100	100 - 250	2 - 10	2 - 18	NZMN3-4-PX250/VAR	192277
		0.60, 100	100 - 250	2 - 10	2 - 18	-	
	400	0.60, 100	160 - 400	2 - 10	2 - 12	NZMN3-4-PX400/VAR	192278
		0.60, 100	160 - 400	2 - 10	2 - 12	-	
	630	0.60, 100	252 - 630	1.5 - 7	2 - 8	NZMN3-4-PX630/VAR	192279
		0.60, 100	252 - 630	1.5 - 7	2 - 8	-	

wa_ren_01818_r Symbolphoto

	630	0.60, 100	252 - 630	2 - 10	2 - 12	NZMN4-4-PX630/VAR	189641
	800	0.60, 100	320 - 800	2 - 10	2 - 18	NZMN4-4-PX800/VAR	189642
	1000	0.60, 100	500 - 1000	2 - 10	2 - 12	NZMN4-4-PX1000/VAR	189643
	1250	0.60, 100	630 - 1250	2 - 10	2 - 12	NZMN4-4-PX1250/VAR	189644
	1600	0.60, 100	800 - 1600	2 - 10	2 - 12	NZMN4-4-PX1600/VAR	189645

Strong switching capacity

wa_ren_00318_r Symbolphoto

70	40	0.60, 100	20 - 40	2 - 10	2 - 18	NZMS2-4-PX40/VAR	192211
	63	0.60, 100	25 - 63	2 - 10	2 - 18	NZMS2-4-PX63/VAR	192212
	100	0.60, 100	40 - 100	2 - 10	2 - 18	NZMS2-4-PX100/VAR	192213
	160	0.60, 100	64 - 160	2 - 10	2 - 18	NZMS2-4-PX160/VAR	192214
	250	0.60, 100	100 - 250	2 - 10	2 - 12	NZMS2-4-PX250/VAR	192215

wa_ren_00818_r Symbolphoto

	250	0.60, 100	100 - 250	2 - 10	2 - 18	NZMS3-4-PX250/VAR	192280
		0.60, 100	100 - 250	2 - 10	2 - 18	-	
	400	0.60, 100	160 - 400	2 - 10	2 - 12	NZMS3-4-PX400/VAR	192281
		0.60, 100	160 - 400	2 - 10	2 - 12	-	
	630	0.60, 100	252 - 630	1.5 - 7	2 - 8	NZMS3-4-PX630/VAR	192282
		0.60, 100	252 - 630	1.5 - 7	2 - 8	-	

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMN2-4-PX40/VAR-SVE	192062	1 Off
			NZMN2-4-PX63/VAR-SVE	192063	
			NZMN2-4-PX100/VAR-SVE	192064	
			NZMN2-4-PX160/VAR-SVE	192065	
			NZMN2-4-PX250/VAR-SVE	192066	
Terminals as accessory			NZMN3-4-PX250/VAR-SVE	192295	
			NZMN3-4-PX250/VAR-AVE	192304	
			NZMN3-4-PX400/VAR-SVE	192296	
			NZMN3-4-PX400/VAR-AVE	192305	
			NZMN3-4-PX630/VAR-SVE	192297	
			NZMN3-4-PX630/VAR-AVE	192306	
-			NZMN4-4-PX630/VAR-AVE	189661	
			NZMN4-4-PX800/VAR-AVE	189662	
			NZMN4-4-PX1000/VAR-AVE	189663	
			NZMN4-4-PX1250/VAR-AVE	189664	
			NZMN4-4-PX1600/VAR-AVE	189665	
Terminals as accessory			NZMS2-4-PX40/VAR-SVE	192069	1 Off
			NZMS2-4-PX63/VAR-SVE	192070	
			NZMS2-4-PX100/VAR-SVE	192071	
			NZMS2-4-PX160/VAR-SVE	192072	
			NZMS2-4-PX250/VAR-SVE	192073	
Terminals as accessory			NZMS3-4-PX250/VAR-SVE	192298	
			NZMS3-4-PX250/VAR-AVE	192307	
			NZMS3-4-PX400/VAR-SVE	192299	
			NZMS3-4-PX400/VAR-AVE	192308	
			NZMS3-4-PX630/VAR-SVE	192300	
			NZMS3-4-PX630/VAR-AVE	192309	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole NZM...PX

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range			Part no.	Article no.
			Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed		
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...		

System and cable protection, selectivity and generator protection

- IEC/EN 60947-2

High switching capacity

wa_ren_00318_r Symbolphoto

150	40	0.60, 100	20 - 40	2 - 10	2 - 18	NZMH2-4-PX40/VAR	192218
	63	0.60, 100	25 - 63	2 - 10	2 - 18	NZMH2-4-PX63/VAR	192219
	100	0.60, 100	40 - 100	2 - 10	2 - 18	NZMH2-4-PX100/VAR	192220
	160	0.60, 100	64 - 160	2 - 10	2 - 18	NZMH2-4-PX160/VAR	192221
	250	0.60, 100	100 - 250	2 - 10	2 - 12	NZMH2-4-PX250/VAR	192222

wa_ren_00818_r Symbolphoto

	250	0.60, 100	100 - 250	2 - 10	2 - 18	NZMH3-4-PX250/VAR	192283
		0.60, 100	100 - 250	2 - 10	2 - 18	-	
	400	0.60, 100	160 - 400	2 - 10	2 - 12	NZMH3-4-PX400/VAR	192284
		0.60, 100	160 - 400	2 - 10	2 - 12	-	
	630	0.60, 100	252 - 630	1.5 - 7	2 - 8	NZMH3-4-PX630/VAR	192285
		0.60, 100	252 - 630	1.5 - 7	2 - 8	-	

wa_ren_01818_r Symbolphoto

85	630	0.60, 100	252 - 630	2 - 10	2 - 18	NZMH4-4-PX630/VAR	189646
	800	0.60, 100	320 - 800	2 - 10	2 - 18	NZMH4-4-PX800/VAR	189647
	1000	0.60, 100	500 - 1000	2 - 10	2 - 18	NZMH4-4-PX1000/VAR	189648
	1250	0.60, 100	630 - 1250	2 - 10	2 - 15	NZMH4-4-PX1250/VAR	189649
	1600	0.60, 100	800 - 1600	2 - 10	2 - 12	NZMH4-4-PX1600/VAR	189650

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMH2-4-PX40/VAR-SVE	192076	1 Off
			NZMH2-4-PX63/VAR-SVE	192077	
			NZMH2-4-PX100/VAR-SVE	192078	
			NZMH2-4-PX160/VAR-SVE	192079	
			NZMH2-4-PX250/VAR-SVE	192080	
Terminals as accessory			NZMH3-4-PX250/VAR-SVE	192301	
			NZMH3-4-PX250/VAR-AVE	192310	
			NZMH3-4-PX400/VAR-SVE	192302	
			NZMH3-4-PX400/VAR-AVE	192311	
			NZMH3-4-PX630/VAR-SVE	192303	
			NZMH3-4-PX630/VAR-AVE	192312	
-			NZMH4-4-PX630/VAR-AVE	189666	
			NZMH4-4-PX800/VAR-AVE	189667	
			NZMH4-4-PX1000/VAR-AVE	189668	
			NZMH4-4-PX1250/VAR-AVE	189669	
			NZMH4-4-PX1600/VAR-AVE	189670	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole
NZM...PX...-TZ, ...-TAZ

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range				Part no.	Article no.
			Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release		
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...	$I_G = I_n$x...		

System and cable protection, selectivity, generator and earth fault protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2
- NZM3, NZM4: with maintenance mode ARMs and zone-selective interlocking ZSI
- NZM2: with zone-selective interlocking ZSI

Normal switching capacity

wa_ren_00318_r Symbolphoto

50	40	0.60, 100	20 - 40	2 - 10	2 - 18	20 - 40	NZMN2-4-PX40/VAR-TZ	192225
	63	0.60, 100	25 - 63	2 - 10	2 - 18	20 - 63	NZMN2-4-PX63/VAR-TZ	192226
	100	0.60, 100	40 - 100	2 - 10	2 - 18	20 - 100	NZMN2-4-PX100/VAR-TZ	192227
	160	0.60, 100	64 - 160	2 - 10	2 - 18	32 - 160	NZMN2-4-PX160/VAR-TZ	192228
	250	0.60, 100	100 - 250	2 - 10	2 - 12	50 - 250	NZMN2-4-PX250/VAR-TZ	192229

wa_ren_00818_r Symbolphoto

	250	0.60, 100	100 - 250	2 - 10	2 - 18	50 - 250	NZMN3-4-PX250/VAR-TAZ	192286
	400	0.60, 100	160 - 400	2 - 10	2 - 12	80 - 400	NZMN3-4-PX400/VAR-TAZ	192287
	630	0.60, 100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMN3-4-PX630/VAR-TAZ	192288

wa_ren_01818_r Symbolphoto

	630	0.60, 100	252 - 630	2 - 10	2 - 18	126 - 630	NZMN4-4-PX630/VAR-TAZ	189651
	800	0.60, 100	320 - 800	2 - 10	2 - 18	160 - 800	NZMN4-4-PX800/VAR-TAZ	189652
	1000	0.60, 100	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMN4-4-PX1000/VAR-TAZ	189653
	1250	0.60, 100	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMN4-4-PX1250/VAR-TAZ	189654
	1600	0.60, 100	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMN4-4-PX1600/VAR-TAZ	189655

Strong switching capacity

wa_ren_00318_r Symbolphoto

70	40	0.60, 100	20 - 40	2 - 10	2 - 18	20 - 40	NZMS2-4-PX40/VAR-TZ	192232
	63	0.60, 100	25 - 63	2 - 10	2 - 18	20 - 63	NZMS2-4-PX63/VAR-TZ	192233
	100	0.60, 100	40 - 100	2 - 10	2 - 18	20 - 100	NZMS2-4-PX100/VAR-TZ	192234
	160	0.60, 100	64 - 160	2 - 10	2 - 18	32 - 160	NZMS2-4-PX160/VAR-TZ	192235
	250	0.60, 100	100 - 250	2 - 10	2 - 12	50 - 250	NZMS2-4-PX250/VAR-TZ	192236

wa_ren_00818_r Symbolphoto

	250	0.60, 100	100 - 250	2 - 10	2 - 18	50 - 250	NZMS3-4-PX250/VAR-TAZ	192289
	400	0.60, 100	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-4-PX400/VAR-TAZ	192290
	630	0.60, 100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-4-PX630/VAR-TAZ	192291

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMN2-4-PX40/VAR-TZ-SVE	192083	1 Off
			NZMN2-4-PX63/VAR-TZ-SVE	192084	
			NZMN2-4-PX100/VAR-TZ-SVE	192085	
			NZMN2-4-PX160/VAR-TZ-SVE	192086	
			NZMN2-4-PX250/VAR-TZ-SVE	192087	
Terminals as accessory			NZMN3-4-PX250/VAR-TAZ-AVE	192313	
			NZMN3-4-PX400/VAR-TAZ-AVE	192314	
			NZMN3-4-PX630/VAR-TAZ-AVE	192315	
-			NZMN4-4-PX630/VAR-TAZ-AVE	189671	
			NZMN4-4-PX800/VAR-TAZ-AVE	189672	
			NZMN4-4-PX1000/VAR-TAZ-AVE	189673	
			NZMN4-4-PX1250/VAR-TAZ-AVE	189674	
			NZMN4-4-PX1600/VAR-TAZ-AVE	189675	
Terminals as accessory			NZMS2-4-PX40/VAR-TZ-SVE	192090	1 Off
			NZMS2-4-PX63/VAR-TZ-SVE	192091	
			NZMS2-4-PX100/VAR-TZ-SVE	192092	
			NZMS2-4-PX160/VAR-TZ-SVE	192093	
			NZMS2-4-PX250/VAR-TZ-SVE	192094	
Terminals as accessory			NZMS3-4-PX250/VAR-TAZ-AVE	192316	
			NZMS3-4-PX400/VAR-TAZ-AVE	192317	
			NZMS3-4-PX630/VAR-TAZ-AVE	192318	

Compact circuit breakers, switch disconnectors

Circuit breakers IEC, electronic releases with energy meter function, 3 pole
NZM...PX...-TZ, ...-TAZ

Fixed mounting with screw terminals

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range				Part no.	Article no.
			Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release		
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...	$I_G = I_n$x...		

System and cable protection, selectivity, generator and earth fault protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2
- NZM3, NZM4: with maintenance mode ARMs and zone-selective interlocking ZSI
- NZM2: with zone-selective interlocking ZSI

Normal switching capacity

wa_ren_00318_r Symbolphoto

150	40	0.60, 100	20 - 40	2 - 10	2 - 18	20 - 40	NZMH2-4-PX40/VAR-TZ	192055
	63	0.60, 100	25 - 63	2 - 10	2 - 18	20 - 63	NZMH2-4-PX63/VAR-TZ	192056
	100	0.60, 100	40 - 100	2 - 10	2 - 18	20 - 100	NZMH2-4-PX100/VAR-TZ	192057
	160	0.60, 100	64 - 160	2 - 10	2 - 18	32 - 160	NZMH2-4-PX160/VAR-TZ	192058
	250	0.60, 100	100 - 250	2 - 10	2 - 12	50 - 250	NZMH2-4-PX250/VAR-TZ	192059

wa_ren_00818_r Symbolphoto

	250	0.60, 100	100 - 250	2 - 10	2 - 18	50 - 250	NZMH3-4-PX250/VAR-TAZ	192292
	400	0.60, 100	160 - 400	2 - 10	2 - 12	80 - 400	NZMH3-4-PX400/VAR-TAZ	192293
	630	0.60, 100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMH3-4-PX630/VAR-TAZ	192294

wa_ren_01818_r Symbolphoto

85	630	0.60, 100	252 - 630	2 - 10	2 - 18	126 - 630	NZMH4-4-PX630/VAR-TAZ	189656
	800	0.60, 100	320 - 800	2 - 10	2 - 18	160 - 800	NZMH4-4-PX800/VAR-TAZ	189657
	1000	0.60, 100	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMH4-4-PX1000/VAR-TAZ	189658
	1250	0.60, 100	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMH4-4-PX1250/VAR-TAZ	189659
	1600	0.60, 100	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMH4-4-PX1600/VAR-TAZ	189660

NZM...PX...-TZ, ...-TAZ

Fixed mounting with box terminals			Plug-in/withdrawable units		
Part no.	Article no.		Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMH2-4-PX40/VAR-TZ-SVE	192097	1 Off
			NZMH2-4-PX63/VAR-TZ-SVE	192098	
			NZMH2-4-PX100/VAR-TZ-SVE	192099	
			NZMH2-4-PX160/VAR-TZ-SVE	192100	
			NZMH2-4-PX250/VAR-TZ-SVE	192101	
Terminals as accessory			NZMH3-4-PX250/VAR-TAZ-AVE	192319	
			NZMH3-4-PX400/VAR-TAZ-AVE	192320	
			NZMH3-4-PX630/VAR-TAZ-AVE	192321	
			NZMH4-4-PX630/VAR-TAZ-AVE	189676	
			NZMH4-4-PX800/VAR-TAZ-AVE	189677	
			NZMH4-4-PX1000/VAR-TAZ-AVE	189678	
			NZMH4-4-PX1250/VAR-TAZ-AVE	189679	
			NZMH4-4-PX1600/VAR-TAZ-AVE	189680	

Compact circuit breakers, switch disconnectors

Compact circuit breakers IEC, thermomagnetic releases, 1 pole NZM...AF

Fixed mounting with box terminals

Switching capacity 230V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Part no.	Article no.	Std. pack
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	I_i			

System and cable protection

- IEC/EN 60947-2

Economy switching capacity

1230PIC-471 Symbolphoto

18	16	16 A fixed	320 A fixed	NZME1-1-AF16	152561	1 Off
	20	20 A fixed	320 A fixed	NZME1-1-AF20	152540	
	25	25 A fixed	320 A fixed	NZME1-1-AF25	152541	
	32	32 A fixed	340 A fixed	NZME1-1-AF32	152542	
	40	40 A fixed	340 A fixed	NZME1-1-AF40	152543	
	50	50 A fixed	600 A fixed	NZME1-1-AF50	152544	
	63	63 A fixed	600 A fixed	NZME1-1-AF63	152545	
	80	80 A fixed	1000 A fixed	NZME1-1-AF80	152546	
	100	100 A fixed	1000 A fixed	NZME1-1-AF100	152547	
	125	125 A fixed	1000 A fixed	NZME1-1-AF125	152548	

Basic switching capacity

1230PIC-471 Symbolphoto

25	16	16 A fixed	320 A fixed	NZMB1-1-AF16	152560	1 Off
	20	20 A fixed	320 A fixed	NZMB1-1-AF20	152531	
	25	25 A fixed	320 A fixed	NZMB1-1-AF25	152532	
	32	32 A fixed	340 A fixed	NZMB1-1-AF32	152533	
	40	40 A fixed	340 A fixed	NZMB1-1-AF40	152534	
	50	50 A fixed	600 A fixed	NZMB1-1-AF50	152535	
	63	63 A fixed	600 A fixed	NZMB1-1-AF63	152536	
	80	80 A fixed	1000 A fixed	NZMB1-1-AF80	152537	
	100	100 A fixed	1000 A fixed	NZMB1-1-AF100	152538	
	125	125 A fixed	1000 A fixed	NZMB1-1-AF125	152539	

Rated current = Rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	Fixed mounting with screw terminals Part no.	Article no.	Fixed mounting with box terminals Part no.	Article no.	Std. pack
Switch disconnectors • IEC/EN 60947-2						For further terminal types see accessories
2 switch positions I, 0						
63	125	-		PN1-63	259140	1 Off
100	125			PN1-100	259141	
125	125			PN1-125	259142	
160	160			PN1-160	281235	
160	250	PN2-160	266005	PN2-160-BT	110308	
200	250	PN2-200	266006	PN2-200-BT	110309	
250	250	PN2-250	266007	PN2-250-BT	110310	
400	630	PN3-400	266017	PN3-400-BT	110314	
630	630	PN3-630	266018	PN3-630-BT	110315	

1230PIC-752 Symbolphoto

1230PIC-796 Symbolphoto

1230PIC-671 Symbolphoto

Compact circuit breakers, switch disconnectors

Switch disconnectors IEC, 3 pole
PN..., N...

Rated current = Rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	Fixed mounting with screw terminals Part no.	Article no.

Switch disconnectors
- IEC/EN 60947-2

3 switch positions I, +, 0

Can be remotely operated with shunt release XU/XA, remote operator XR
Can be equipped with trip-indicating auxiliary contact M22-K...

1230PIC-752 Symbolphoto

63	125	Screw terminals as accessories	
100	125		
125	125		
160	160		

1230PIC-796 Symbolphoto

160	250	N2-160	266008
200	250	N2-200	266009
250	250	N2-250	266010

1230PIC-671 Symbolphoto

400	630	N3-400	266019
		-	
630	630	N3-630	266020
		-	

1230PIC-674 Symbolphoto

800	1600	N4-800	266025
1000	1600	N4-1000	266026
1250	1600	N4-1250	266027
1600	1600	N4-1600	266028

Fixed mounting with box terminals			Plug-in/withdrawable units		
Part no.	Article no.		Part no.	Article no.	Std. pack
					For further terminal types see accessories
N1-63	259143		N1-63-SVE	113729	1 Off
N1-100	259144		N1-100-SVE	113730	
N1-125	259145		N1-125-SVE	113731	
N1-160	281236		-		
N2-160-BT	110311		N2-160-SVE	113733	
N2-200-BT	110312		N2-200-SVE	113734	
N2-250-BT	110313		N2-250-SVE	113735	
N3-400-BT	110316		N3-400-SVE	168544	
-			N3-400-AVE	110768	
N3-630-BT	110317		N3-630-SVE	168545	
-			N3-630-AVE	110769	
-			Withdrawable units as accessory		

Rated current = Rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	Fixed mounting with screw terminals Part no.	Article no.	Fixed mounting with box terminals Part no.	Article no.	Std. pack
Switch disconnectors • IEC/EN 60947-2						For further terminal types see accessories
2 switch positions I, 0						
63	125	-		PN1-4-63	265999	1 Off
100	125			PN1-4-100	266000	
125	125			PN1-4-125	266001	
160	160			PN1-4-160	281253	
160	250	PN2-4-160	266011	PN2-4-160-BT	118880	
200	250	PN2-4-200	266012	PN2-4-200-BT	118881	
250	250	PN2-4-250	266013	PN2-4-250-BT	118882	
400	630	PN3-4-400	266021	PN3-4-400-BT	111653	
630	630	PN3-4-630	266022	PN3-4-630-BT	111654	

1230PIC-751 Symbolphoto

1230PIC-797 Symbolphoto

1230PIC-672 Symbolphoto

Switch disconnectors IEC, 4 pole
PN...-4, N...-4

Rated current = Rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	Fixed mounting with screw terminals Part no.	Article no.

Switch disconnectors

- IEC/EN 60947-2

3 switch positions I, +, 0

Can be remotely operated with shunt release XU/XA, remote operator XR
Can be equipped with trip-indicating auxiliary contact M22-K...

1230PIC-751 Symbolphoto

63	125	N1-4-63	266002
100	125	N1-4-100	266003
125	125	N1-4-125	266004
160	160	N1-4-160	281254

1230PIC-797 Symbolphoto

160	250	N2-4-160	266014
200	250	N2-4-200	266015
250	250	N2-4-250	266016

1230PIC-672 Symbolphoto

400	630	N3-4-400	266023
	630	-	
630	630	N3-4-630	266024
	630	-	

1230PIC-673 Symbolphoto

800	1600	N4-4-800	266029
1000	1600	N4-4-1000	266030
1250	1600	N4-4-1250	266031
1600	1600	N4-4-1600	266032

Fixed mounting with box terminals			**Plug-in/withdrawable units**		
Part no.	Article no.		Part no.	Article no.	Std. pack
					For further terminal types see accessories
Withdrawable units as accessory			Withdrawable units as accessory		1 Off
N2-4-160-BT	118883		N2-4-160-SVE	113736	
N2-4-200-BT	118884		N2-4-200-SVE	113737	
N2-4-250-BT	118885		N2-4-250-SVE	113738	
N3-4-400-BT	111651		N3-4-400-SVE	168470	
-			N3-4-400-AVE	110872	
N3-4-630-BT	111652		N3-4-630-SVE	168471	
-			N3-4-630-AVE	110873	
-			Withdrawable units as accessory		

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, thermomagnetic releases, 3 pole
NZM...A...NA

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		
								

System and cable protection

Fixed overload releases I_r

Basic switching capacity

1230PIC-785 Symbolphoto

25	-	-	-	20	15 - 20	350 A fixed	Screw terminals as accessories	
				25	20 - 25	350 A fixed		
				32	25 - 32	350 A fixed		
				40	32 - 40	8 - 10		
				50	40 - 50	6 - 10		
				63	50 - 63	6 - 10		
				80	63 - 80	6 - 10		
				100	80 - 100	6 - 10		
				125	100 - 125	6 - 10		

1230PIC-802 Symbolphoto

25	25	18	-	20	15 - 20	350 A fixed	NZMB2-A20-NA	269206
				25	20 - 25	350 A fixed	NZMB2-A25-NA	269207
				32	25 - 32	350 A fixed	NZMB2-A32-NA	269208
				40	32 - 40	8 - 10	NZMB2-A40-NA	269209
				50	40 - 50	6 - 10	NZMB2-A50-NA	269210
				63	50 - 63	6 - 10	NZMB2-A63-NA	269211
				80	63 - 80	6 - 10	NZMB2-A80-NA	269212
				100	80 - 100	6 - 10	NZMB2-A100-NA	269213
				125	100 - 125	6 - 10	NZMB2-A125-NA	269214
				160	125 - 160	6 - 10	NZMB2-A160-NA	269215
				200	160 - 200	6 - 10	NZMB2-A200-NA	269216
				250	200 - 250	6 - 10	NZMB2-A250-NA	271105

Normal switching capacity

1230PIC-785 Symbolphoto

35	-	-	-	20	15 - 20	350 A fixed	Screw terminals as accessories	
				25	20 - 25	350 A fixed		
				32	25 - 32	350 A fixed		
				40	32 - 40	8 - 10		
				50	40 - 50	6 - 10		
				63	50 - 63	6 - 10		
				80	63 - 80	6 - 10		
				100	80 - 100	6 - 10		
				125	100 - 125	6 - 10		

1230PIC-802 Symbolphoto

35	35	25	-	20	15 - 20	350 A fixed	NZMN2-A20-NA	269217
				25	20 - 25	350 A fixed	NZMN2-A25-NA	269218
				32	25 - 32	350 A fixed	NZMN2-A32-NA	269219
				40	32 - 40	8 - 10	NZMN2-A40-NA	269220
				50	40 - 50	6 - 10	NZMN2-A50-NA	269221
				63	50 - 63	6 - 10	NZMN2-A63-NA	269222
				80	63 - 80	6 - 10	NZMN2-A80-NA	269223
				100	80 - 100	6 - 10	NZMN2-A100-NA	269224
				125	100 - 125	6 - 10	NZMN2-A125-NA	269225
				160	125 - 160	6 - 10	NZMN2-A160-NA	269226
				200	160 - 200	6 - 10	NZMN2-A200-NA	269227
				250	200 - 250	6 - 10	NZMN2-A250-NA	271106

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMB1-A20-NA	281559	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB1-A25-NA	281560		UL File No.	E31593
NZMB1-A32-NA	281561		UL Category Control No.	DIVQ
NZMB1-A40-NA	272253		CSA File No.	022086
NZMB1-A50-NA	272254		CSA Class No.	1432-01
NZMB1-A63-NA	272255		North America Certification	UL listed, CSA certified
NZMB1-A80-NA	272256		Specially designed for NA	Yes
NZMB1-A100-NA	272258		Suitable for	Feeder circuits, branch circuits
NZMB1-A125-NA	281562		Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	480Y/277 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB2-A20-BT-NA	107773	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB2-A25-BT-NA	107774		UL File No	E31593
NZMB2-A32-BT-NA	107775		UL Category Control No.	DIVQ
NZMB2-A40-BT-NA	107776		CSA File No.	022086
NZMB2-A50-BT-NA	107777		CSA Class No.	1432-01
NZMB2-A63-BT-NA	107778		North America Certification	UL listed, CSA certified
NZMB2-A80-BT-NA	107779		Specially designed for NA	Yes
NZMB2-A100-BT-NA	107780		Suitable for	Feeder circuits, branch circuits
NZMB2-A125-BT-NA	107781		Current Limiting Circuit breaker	Yes
NZMB2-A160-BT-NA	107782		Max. Voltage Rating	600Y/347 V, 480 V
NZMB2-A200-BT-NA	107783		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB2-A250-BT-NA	107784			
NZMN1-A20-NA	281570	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN1-A25-NA	281571		UL File No.	E31593
NZMN1-A32-NA	281572		UL Category Control No.	DIVQ
NZMN1-A40-NA	274237		CSA File No.	022086
NZMN1-A50-NA	274239		CSA Class No.	1432-01
NZMN1-A63-NA	274240		North America Certification	UL listed, CSA certified
NZMN1-A80-NA	274241		Specially designed for NA	Yes
NZMN1-A100-NA	274242		Suitable for	Feeder circuits, branch circuits
NZMN1-A125-NA	281573		Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	480Y/277 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN2-A20-BT-NA	107785	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-A25-BT-NA	107786		UL File No.	E31593
NZMN2-A32-BT-NA	107787		UL Category Control No.	DIVQ
NZMN2-A40-BT-NA	107788		CSA File No.	022086
NZMN2-A50-BT-NA	107789		CSA Class No.	1432-01
NZMN2-A63-BT-NA	107790		North America Certification	UL listed, CSA certified
NZMN2-A80-BT-NA	107791		Specially designed for NA	Yes
NZMN2-A100-BT-NA	107792		Suitable for	Feeder circuits, branch circuits
NZMN2-A125-BT-NA	107793		Current Limiting Circuit breaker	Yes
NZMN2-A160-BT-NA	107794		Max. Voltage Rating	600Y/347 V, 480 V
NZMN2-A200-BT-NA	107795		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN2-A250-BT-NA	107796			

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, thermomagnetic releases, 3 pole
NZM...A...NA

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		
						I >		
System and cable protection								
Fixed overload releases I_r								
High switching capacity								
150	150	65	-	20	15 - 20	350 A fixed	NZMH2-A20-NA	269228
				25	20 - 25	350 A fixed	NZMH2-A25-NA	269229
				32	25 - 32	350 A fixed	NZMH2-A32-NA	269230
				40	32 - 40	8 - 10	NZMH2-A40-NA	269231
				50	40 - 50	6 - 10	NZMH2-A50-NA	269232
				63	50 - 63	6 - 10	NZMH2-A63-NA	269233
				80	63 - 80	6 - 10	NZMH2-A80-NA	269234
				100	80 - 100	6 - 10	NZMH2-A100-NA	269235
				125	100 - 125	6 - 10	NZMH2-A125-NA	269236
100	100	50	-	160	125 - 160	6 - 10	NZMH2-A160-NA	269237
				200	160 - 200	6 - 10	NZMH2-A200-NA	269238
				250	200 - 250	6 - 10	NZMH2-A250-NA	271107

1230PIC-802 Symbolphoto

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America
NZMH2-A20-BT-NA	107797	1 Off	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMH2-A25-BT-NA	107798		UL File No.: E31593
NZMH2-A32-BT-NA	107799		UL Category Control No.: DIVQ
NZMH2-A40-BT-NA	107800		CSA File No.: 022086
NZMH2-A50-BT-NA	107801		CSA Class No.: 1432-01
NZMH2-A63-BT-NA	107802		North America Certification: UL listed, CSA certified
NZMH2-A80-BT-NA	107803		Specially designed for NA: Yes
NZMH2-A100-BT-NA	107804		Suitable for: Feeder circuits, branch circuits
NZMH2-A125-BT-NA	107805		Current Limiting Circuit breaker: Yes
NZMH2-A160-BT-NA	107806		Max. Voltage Rating: 600Y/347 V, 480 V
NZMH2-A200-BT-NA	107807		Degree of Protection: IEC: IP20; UL/CSA Type: -
NZMH2-A250-BT-NA	107808		

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, thermomagnetic releases, 3 pole
NZM...AF...NA

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection

Fixed overload releases I_r

Basic switching capacity

sg04515 Symbolphoto

25	-	-	-	20	20 A fixed	350 A fixed	Screw terminals as accessories	
				25	25 A fixed	350 A fixed		
				30	30 A fixed	350 A fixed		
				35	35 A fixed	8 - 10		
				40	40 A fixed	8 - 10		
				45	45 A fixed	6 - 10		
				50	50 A fixed	6 - 10		
				60	60 A fixed	6 - 10		
				70	70 A fixed	6 - 10		
				80	80 A fixed	6 - 10		
				90	90 A fixed	6 - 10		
				100	100 A fixed	6 - 10		
				110	110 A fixed	6 - 10		
				125	125 A fixed	6 - 10		

sg04215 Symbolphoto

25	25	18	-	15	15 A fixed	350 A fixed	NZMB2-AF15-NA	269142
				20	20 A fixed	350 A fixed	NZMB2-AF20-NA	269143
				25	25 A fixed	350 A fixed	NZMB2-AF25-NA	269144
				30	30 A fixed	350 A fixed	NZMB2-AF30-NA	269145
				35	35 A fixed	8 - 10	NZMB2-AF35-NA	269146
				40	40 A fixed	8 - 10	NZMB2-AF40-NA	269147
				45	45 A fixed	6 - 10	NZMB2-AF45-NA	269148
				50	50 A fixed	6 - 10	NZMB2-AF50-NA	269149
				60	60 A fixed	6 - 10	NZMB2-AF60-NA	269160
				70	70 A fixed	6 - 10	NZMB2-AF70-NA	269161
				80	80 A fixed	6 - 10	NZMB2-AF80-NA	269162
				90	90 A fixed	6 - 10	NZMB2-AF90-NA	269163
				100	100 A fixed	6 - 10	NZMB2-AF100-NA	269164
				110	110 A fixed	6 - 10	NZMB2-AF110-NA	269165
				125	125 A fixed	6 - 10	NZMB2-AF125-NA	269166
				150	150 A fixed	6 - 10	NZMB2-AF150-NA	269167
				175	175 A fixed	6 - 10	NZMB2-AF175-NA	269168
				200	200 A fixed	6 - 10	NZMB2-AF200-NA	269169
				225	225 A fixed	6 - 10	NZMB2-AF225-NA	271089
				250	250 A fixed	6 - 10	NZMB2-AF250-NA	271100

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMB1-AF20-NA	281554	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB1-AF25-NA	281555		UL File No.	E31593
NZMB1-AF30-NA	281556		UL Category Control No.	DIVQ
NZMB1-AF35-NA	272204		CSA File No.	022086
NZMB1-AF40-NA	272205		CSA Class No.	1432-01
NZMB1-AF45-NA	272206		North America Certification	UL listed, CSA certified
NZMB1-AF50-NA	272207		Specially designed for NA	Yes
NZMB1-AF60-NA	272208		Suitable for	Feeder circuits, branch circuits
NZMB1-AF70-NA	272209		Current Limiting Circuit breaker	Yes
NZMB1-AF80-NA	272250		Max. Voltage Rating	480Y/277 V
NZMB1-AF90-NA	272251		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB1-AF100-NA	272252			
NZMB1-AF110-NA	281557			
NZMB1-AF125-NA	281558			
NZMB2-AF15-BT-NA	107611	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB2-AF20-BT-NA	107612		UL File No.	E31593
NZMB2-AF25-BT-NA	107613		UL Category Control No.	DIVQ
NZMB2-AF30-BT-NA	107614		CSA File No.	022086
NZMB2-AF35-BT-NA	107615		CSA Class No.	1432-01
NZMB2-AF40-BT-NA	107616		North America Certification	UL listed, CSA certified
NZMB2-AF45-BT-NA	107617		Specially designed for NA	Yes
NZMB2-AF50-BT-NA	107618		Suitable for	Feeder circuits, branch circuits
NZMB2-AF60-BT-NA	107619		Current Limiting Circuit breaker	Yes
NZMB2-AF70-BT-NA	107620		Max. Voltage Rating	600Y/347 V, 480 V
NZMB2-AF80-BT-NA	107621		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB2-AF90-BT-NA	107622			
NZMB2-AF100-BT-NA	107623			
NZMB2-AF110-BT-NA	107624			
NZMB2-AF125-BT-NA	107625			
NZMB2-AF150-BT-NA	107626			
NZMB2-AF175-BT-NA	107627			
NZMB2-AF200-BT-NA	107628			
NZMB2-AF225-BT-NA	107629			
NZMB2-AF250-BT-NA	107630			

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, thermomagnetic releases, 3 pole
NZM...AF...NA

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection

Fixed overload releases I_r

Normal switching capacity

sg04515 Symbolphoto

35	-	-	-	20	20 A fixed	350 A fixed	Screw terminals as accessories	
				25	25 A fixed	350 A fixed		
				30	30 A fixed	350 A fixed		
				35	35 A fixed	8 - 10		
				40	40 A fixed	8 - 10		
				45	45 A fixed	6 - 10		
				50	50 A fixed	6 - 10		
				60	60 A fixed	6 - 10		
				70	70 A fixed	6 - 10		
				80	80 A fixed	6 - 10		
				90	90 A fixed	6 - 10		
				100	100 A fixed	6 - 10		
				110	110 A fixed	6 - 10		
				125	125 A fixed	6 - 10		

sg04215 Symbolphoto

35	35	25	-	15	15 A fixed	350 A fixed	NZMN2-AF15-NA	269170
				20	20 A fixed	350 A fixed	NZMN2-AF20-NA	269171
				25	25 A fixed	350 A fixed	NZMN2-AF25-NA	269172
				30	30 A fixed	350 A fixed	NZMN2-AF30-NA	269173
				35	35 A fixed	8 - 10	NZMN2-AF35-NA	269174
				40	40 A fixed	8 - 10	NZMN2-AF40-NA	269175
				45	45 A fixed	6 - 10	NZMN2-AF45-NA	269176
				50	50 A fixed	6 - 10	NZMN2-AF50-NA	269177
				60	60 A fixed	6 - 10	NZMN2-AF60-NA	269178
				70	70 A fixed	6 - 10	NZMN2-AF70-NA	269179
				80	80 A fixed	6 - 10	NZMN2-AF80-NA	269180
				90	90 A fixed	6 - 10	NZMN2-AF90-NA	269181
				100	100 A fixed	6 - 10	NZMN2-AF100-NA	269182
				110	110 A fixed	6 - 10	NZMN2-AF110-NA	269183
				125	125 A fixed	6 - 10	NZMN2-AF125-NA	269184
				150	150 A fixed	6 - 10	NZMN2-AF150-NA	269185
				175	175 A fixed	6 - 10	NZMN2-AF175-NA	269186
				200	200 A fixed	6 - 10	NZMN2-AF200-NA	269187
				225	225 A fixed	6 - 10	NZMN2-AF225-NA	271101
				250	250 A fixed	6 - 10	NZMN2-AF250-NA	271102

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMN1-AF20-NA	281565	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN1-AF25-NA	281566		UL File No.	E31593
NZMN1-AF30-NA	281567		UL Category Control No.	DIVQ
NZMN1-AF35-NA	274220		CSA File No.	022086
NZMN1-AF40-NA	274223		CSA Class No.	1432-01
NZMN1-AF45-NA	274230		North America Certification	UL listed, CSA certified
NZMN1-AF50-NA	274231		Specially designed for NA	Yes
NZMN1-AF60-NA	274232		Suitable for	Feeder circuits, branch circuits
NZMN1-AF70-NA	274233		Current Limiting Circuit breaker	Yes
NZMN1-AF80-NA	274234		Max. Voltage Rating	480Y/277 V
NZMN1-AF90-NA	274235		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN1-AF100-NA	274236			
NZMN1-AF110-NA	281568			
NZMN1-AF125-NA	281569			
NZMN2-AF15-BT-NA	107631	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-AF20-BT-NA	107632		UL File No.	E31593
NZMN2-AF25-BT-NA	107633		UL Category Control No.	DIVQ
NZMN2-AF30-BT-NA	107634		CSA File No.	022086
NZMN2-AF35-BT-NA	107635		CSA Class No.	1432-01
NZMN2-AF40-BT-NA	107636		North America Certification	UL listed, CSA certified
NZMN2-AF45-BT-NA	107637		Specially designed for NA	Yes
NZMN2-AF50-BT-NA	107638		Suitable for	Feeder circuits, branch circuits
NZMN2-AF60-BT-NA	107639		Current Limiting Circuit breaker	Yes
NZMN2-AF70-BT-NA	107640		Max. Voltage Rating	600Y/347 V, 480 V
NZMN2-AF80-BT-NA	107641		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN2-AF90-BT-NA	107642			
NZMN2-AF100-BT-NA	107643			
NZMN2-AF110-BT-NA	107644			
NZMN2-AF125-BT-NA	107645			
NZMN2-AF150-BT-NA	107646			
NZMN2-AF175-BT-NA	107647			
NZMN2-AF200-BT-NA	107648			
NZMN2-AF225-BT-NA	107649			
NZMN2-AF250-BT-NA	107650			

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, thermomagnetic releases, 3 pole
NZM...AF...NA

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection

Fixed overload releases I_r

High switching capacity

sg04215 Symbolphoto

150	150	65	-	15	15 A fixed	350 A fixed	NZMH2-AF15-NA	269188
				20	20 A fixed	350 A fixed	NZMH2-AF20-NA	269189
				25	25 A fixed	350 A fixed	NZMH2-AF25-NA	269190
				30	30 A fixed	350 A fixed	NZMH2-AF30-NA	269191
				35	35 A fixed	8 - 10	NZMH2-AF35-NA	269192
				40	40 A fixed	8 - 10	NZMH2-AF40-NA	269193
				45	45 A fixed	6 - 10	NZMH2-AF45-NA	269194
				50	50 A fixed	6 - 10	NZMH2-AF50-NA	269195
				60	60 A fixed	6 - 10	NZMH2-AF60-NA	269196
				70	70 A fixed	6 - 10	NZMH2-AF70-NA	269197
				80	80 A fixed	6 - 10	NZMH2-AF80-NA	269198
				90	90 A fixed	6 - 10	NZMH2-AF90-NA	269199
				100	100 A fixed	6 - 10	NZMH2-AF100-NA	269200
				110	110 A fixed	6 - 10	NZMH2-AF110-NA	269201
				125	125 A fixed	6 - 10	NZMH2-AF125-NA	269202
100	100	50	-	150	150 A fixed	6 - 10	NZMH2-AF150-NA	269203
				175	175 A fixed	6 - 10	NZMH2-AF175-NA	269204
				200	200 A fixed	6 - 10	NZMH2-AF200-NA	269205
				225	225 A fixed	6 - 10	NZMH2-AF225-NA	271103
				250	250 A fixed	6 - 10	NZMH2-AF250-NA	271104

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America
NZMH2-AF15-BT-NA	107809	1 Off	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMH2-AF20-BT-NA	107810		UL File No.: E31593
NZMH2-AF25-BT-NA	107811		UL Category Control No.: DIVQ
NZMH2-AF30-BT-NA	107812		CSA File No.: 022086
NZMH2-AF35-BT-NA	107813		CSA Class No.: 1432-01
NZMH2-AF40-BT-NA	107814		North America Certification: UL listed, CSA certified
NZMH2-AF45-BT-NA	107815		Specially designed for NA: Yes
NZMH2-AF50-BT-NA	107816		Suitable for: Feeder circuits, branch circuits
NZMH2-AF60-BT-NA	107817		Current Limiting Circuit breaker: Yes
NZMH2-AF70-BT-NA	107818		Max. Voltage Rating: 600Y/347 V, 480 V
NZMH2-AF80-BT-NA	107819		Degree of Protection: IEC: IP20; UL/CSA Type: -
NZMH2-AF90-BT-NA	107820		
NZMH2-AF100-BT-NA	107821		
NZMH2-AF110-BT-NA	107822		
NZMH2-AF125-BT-NA	107823		
NZMH2-AF150-BT-NA	107824		
NZMH2-AF175-BT-NA	107825		
NZMH2-AF200-BT-NA	107826		
NZMH2-AF225-BT-NA	107827		
NZMH2-AF250-BT-NA	107828		

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, magnetic short-circuit releases, 3 pole
NZM...-S...CNA

Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range short-circuit release Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.

Short-circuit protection

Motor protection in conjunction with contactor and overload relay
- with short-circuit release
- without overload release I_r

Basic switching capacity

1230PIC-787 Symbolphoto

1,2	7 - 12	Screw terminals	
2	6 - 11	as accessories	
3	6 - 11		
5	6 - 11		
8	6 - 11		
12	7 - 12		
18	7 - 12		
26	8 - 13		
33	8 - 14		
40	8 - 14		
50	8 - 14		
63	8 - 14		
80	8 - 14		
100	8 - 13		

1230PIC-804 Symbolphoto

1,6	8 - 14	NZMB2-S1,6-CNA	269472
2,4	8 - 14	NZMB2-S2,4-CNA	269473
5	6 - 11	NZMB2-S5-CNA	103034
8	6 - 11	NZMB2-S8-CNA	103035
12	7 - 12	NZMB2-S12-CNA	103036
18	7 - 12	NZMB2-S18-CNA	103037
26	8 - 13	NZMB2-S26-CNA	103038
33	8 - 14	NZMB2-S33-CNA	103039
40	8 - 14	NZMB2-S40-CNA	269243
50	8 - 14	NZMB2-S50-CNA	269244
63	8 - 14	NZMB2-S63-CNA	269245
80	8 - 14	NZMB2-S80-CNA	269246
100	8 - 14	NZMB2-S100-CNA	269247
125	8 - 14	NZMB2-S125-CNA	269248
160	8 - 14	NZMB2-S160-CNA	269249
200	8 - 13	NZMB2-S200-CNA	269250
250	8 - 10	NZMB2-S250-CNA	102478

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America

For further terminal types see accessories

NZMB1-S1,2-CNA	102906	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09
NZMB1-S2-CNA	102907		UL File No.	E31593
NZMB1-S3-CNA	102908		UL Category Control No.	DKPU2
NZMB1-S5-CNA	102909		CSA File No.	022086
NZMB1-S8-CNA	103020		CSA Class No.	1432-01
NZMB1-S12-CNA	103021		North America Certification	UL recognized, CSA certified
NZMB1-S18-CNA	103022		Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
NZMB1-S26-CNA	103023			
NZMB1-S33-CNA	103024			
NZMB1-S40-CNA	281263			
NZMB1-S50-CNA	281264		Specially designed for NA	Yes
NZMB1-S63-CNA	281265		Suitable for	Branch circuits, feeder circuits
NZMB1-S80-CNA	281266		Current Limiting Circuit breaker	No
NZMB1-S100-CNA	281267		Max. Voltage Rating	480Y/277 V
			Degree of Protection	UL/CSA Type: -

NZMB2-S1,6-BT-CNA	107651	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09
NZMB2-S2,4-BT-CNA	107652		UL File No.	E31593
NZMB2-S5-BT-CNA	107653		UL Category Control No.	DKPU2
NZMB2-S8-BT-CNA	107654		CSA File No.	022086
NZMB2-S12-BT-CNA	107655		CSA Class No.	1432-01
NZMB2-S18-BT-CNA	107656		North America Certification	UL recognized, CSA certified
NZMB2-S26-BT-CNA	107657		Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
NZMB2-S33-BT-CNA	107658			
NZMB2-S40-BT-CNA	107659			
NZMB2-S50-BT-CNA	107660			
NZMB2-S63-BT-CNA	107661		Specially designed for NA	Yes
NZMB2-S80-BT-CNA	107662		Suitable for	Branch circuits, feeder circuits
NZMB2-S100-BT-CNA	107663		Current Limiting Circuit breaker	No
NZMB2-S125-BT-CNA	107664		Max. Voltage Rating	600Y/347 V, 480 V
NZMB2-S160-BT-CNA	107665		Degree of Protection	UL/CSA Type: -
NZMB2-S200-BT-CNA	107666			
NZMB2-S250-BT-CNA	107667			

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, magnetic short-circuit releases, 3 pole
NZM...-S...CNA

Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Short-circuit releases Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.	Std. pack

Short-circuit protection

Motor protection in conjunction with contactor and overload relay
- With short-circuit releases
- Without overload releases I_r

Normal switching capacity

1230PIC-787 Symbolphoto

1,2	7 - 12	NZMN1-S1,2-CNA	103025	1 Off
2	6 - 11	NZMN1-S2-CNA	103026	
3	6 - 11	NZMN1-S3-CNA	103027	
5	6 - 11	NZMN1-S5-CNA	103028	
8	6 - 11	NZMN1-S8-CNA	103029	
12	7 - 12	NZMN1-S12-CNA	103030	
18	7 - 12	NZMN1-S18-CNA	103031	
26	8 - 13	NZMN1-S26-CNA	103032	
33	8 - 14	NZMN1-S33-CNA	103033	
40	8 - 14	NZMN1-S40-CNA	281276	
50	8 - 14	NZMN1-S50-CNA	281277	
63	8 - 14	NZMN1-S63-CNA	281278	
80	8 - 14	NZMN1-S80-CNA	281279	
100	8 - 13	NZMN1-S100-CNA	281280	

1230PIC-804 Symbolphoto

1,6	8 - 14	NZMN2-S1,6-CNA	269478	1 Off
2,4	8 - 14	NZMN2-S2,4-CNA	269479	
5	6 - 11	NZMN2-S5-CNA	103040	
8	6 - 11	NZMN2-S8-CNA	103041	
12	7 - 12	NZMN2-S12-CNA	103042	
18	7 - 12	NZMN2-S18-CNA	103043	
26	8 - 13	NZMN2-S26-CNA	103044	
33	8 - 14	NZMN2-S33-CNA	103045	
40	8 - 14	NZMN2-S40-CNA	269255	
50	8 - 14	NZMN2-S50-CNA	269256	
63	8 - 14	NZMN2-S63-CNA	269257	
80	8 - 14	NZMN2-S80-CNA	269258	
100	8 - 14	NZMN2-S100-CNA	269259	
125	8 - 14	NZMN2-S125-CNA	269260	
160	8 - 14	NZMN2-S160-CNA	269261	
200	8 - 13	NZMN2-S200-CNA	269262	
250	8 - 10	NZMN2-S250-CNA	102479	

High switching capacity

1230PIC-804 Symbolphoto

1,6	8 - 14	NZMH2-S1,6-CNA	269482	1 Off
2,4	8 - 14	NZMH2-S2,4-CNA	269483	
5	6 - 11	NZMH2-S5-CNA	103046	
8	6 - 11	NZMH2-S8-CNA	103047	
12	7 - 12	NZMH2-S12-CNA	103048	
18	5 - 9	NZMH2-S18-CNA	103049	
26	8 - 13	NZMH2-S26-CNA	103050	
33	8 - 14	NZMH2-S33-CNA	103051	
40	8 - 14	NZMH2-S40-CNA	269267	
50	8 - 14	NZMH2-S50-CNA	269268	
63	8 - 14	NZMH2-S63-CNA	269269	
80	8 - 14	NZMH2-S80-CNA	269270	
100	8 - 14	NZMH2-S100-CNA	269271	
125	8 - 14	NZMH2-S125-CNA	269272	
200	8 - 13	NZMH2-S160-CNA	269273	
250	8 - 10	NZMH2-S200-CNA	269274	
160	8 - 14	NZMH2-S250-CNA	102490	

Information relevant for export to North America

For further terminal types
see accessories

Product Standards	UL 489; CSA-C22.2 No. 5-09
UL File No.	E31593
UL Category Control No.	DKPU2
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
Specially designed for NA	Yes
Suitable for	Branch circuits, feeder circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	480Y/277 V
Degree of Protection	UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09
UL File No.	E31593
UL Category Control No.	DKPU2
CSA File No.	022086
CSA Class No.	1432-01
NA Certification	UL recognized, CSA certified
Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
Specially designed for NA	Yes
Suitable for	Branch circuits, feeder circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	600Y/347 V, 480 V
Degree of Protection	UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09
UL File No.	E31593
UL Category Control No.	DKPU2
CSA File No.	022086
CSA Class No.	1432-01
NA Certification	UL recognized, CSA certified
Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
Specially designed for NA	Yes
Suitable for	Branch circuits, feeder circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	600Y/347 V, 480 V
Degree of Protection	UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, electronic releases, 3 pole
NZM...-AX...NA

Switching capacity				Rated current =	Setting range		Fixed mounting with screw terminals Part no.	Article no.	Std. pack
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed			
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$			

System and cable protection

Adjustable overload release I_r
R.m.s. value measurement and "thermal memory"

Normal switching capacity

wa_ren_00418_r Symbolphoto

35	35	25	-	40	20 - 40	2 - 12	NZMN2-AX40-NA	195224	1 Off
				100	40 - 100	2 - 12	NZMN2-AX100-NA	195225	
				160	64 - 160	2 - 12	NZMN2-AX160-NA	195226	
				250	100 - 250	2 - 12	NZMN2-AX250-NA	195227	

sg04015 Symbolphoto

42	42	35	35	250	100 - 250	2 - 11	NZMN3-AX250-NA	192484	1 Off
				400	160 - 400	2 - 11	NZMN3-AX400-NA	192485	
				600	240 - 600	2 - 8	NZMN3-AX600-NA	192486	

sg04715 Symbolphoto

42	42	35	35	800	320 - 800	2 - 12	NZMN4-AX800-NA	192542	1 Off
				1000	400 - 1000	2 - 12	NZMN4-AX1000-NA	192543	
				1200	480 - 1200	2 - 12	NZMN4-AX1200-NA	192544	

Information relevant for export to North America

For further terminal types
see accessories

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600Y/347 V, 480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, electronic releases, 3 pole
NZM...-AX...NA

Switching capacity				Rated current =	Setting range		Fixed mounting with screw terminals Part no.	Article no.	Std. pack
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed			
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$			

System and cable protection

Adjustable overload release I_r
R.m.s. value measurement and "thermal memory"

High switching capacity

wa_ren_00418_r Symbolphoto

100	100	50	-	40	20 - 40	2 - 12	NZMH2-AX40-NA	195229	1 Off
				100	40 - 100	2 - 12	NZMH2-AX100-NA	195228	
				160	64 - 160	2 - 12	NZMH2-AX160-NA	195230	
				250	100 - 250	2 - 12	NZMH2-AX250-NA	195231	

sg04015 Symbolphoto

100	100	50	50	250	100 - 250	2 - 11	NZMH3-AX250-NA	192496	1 Off
				400	160 - 400	2 - 11	NZMH3-AX400-NA	192497	
				600	240 - 600	2 - 8	NZMH3-AX600-NA	192498	

sg04715 Symbolphoto

85	85	50	50	800	320 - 800	2 - 12	NZMH4-AX800-NA	192560	1 Off
				1000	400 - 1000	2 - 12	NZMH4-AX1000-NA	192561	
				1200	480 - 1200	2 - 12	NZMH4-AX1200-NA	192562	

Information relevant for export to North America

For further terminal types
see accessories

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600Y/347 V, 480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, electronic releases, 3 pole
NZM...MX...NA

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		
						I>		
Motor protection 100 % rated Adjustable overload releases For use in motor circuits with contactor. Additional motor protective characteristics (calibration) to UL508, CSA-C22.2 No. 14-05.								
Normal switching capacity								
1230PIC-854 Symbolphoto 								
35	35	-	-	90	36-90	2 - 14	NZMN2-MX90-NA	192523
				140	56-140	2 - 18	NZMN2-MX140-NA	192524
				200	80-200	2 - 15	NZMN2-MX200-NA	192439
High switching capacity								
1230PIC-854 Symbolphoto 								
100	100	-	-	90	36-90	2 - 14	NZMH2-MX90-NA	192462
				140	56-140	2 - 18	NZMH2-MX140-NA	192463
				200	80-200	2 - 15	NZMH2-MX200-NA	192464
wa_ren_01018_r Symbolphoto 								
100	100	-	-	250	100 - 250	2 - 18	NZMH3-MX250-NA	193347
				350	140 - 350	2 - 15	NZMH3-MX350-NA	193348
				450	180 - 450	2 - 12	NZMH3-MX450-NA	193349

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMN2-MX90-BT-NA	192440	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-MX140-BT-NA	192441		UL File No.	E31593
NZMN2-MX200-BT-NA	192442		UL CCN	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			NA Certification	UL Listed, CSA certified
			Specially designed for NA	Yes, additionally calibrated according to UL 508
			Suitable for	Feeder circuits, branch circuits
			Current Limiting CB	Yes
			Max. Voltage Rating	480 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMH2-MX90-BT-NA	192465	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMH2-MX140-BT-NA	192466		UL File No.	E31593
NZMH2-MX200-BT-NA	192467		UL CCN	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			NA Certification	UL Listed, CSA certified
			Specially designed for NA	Yes, additionally calibrated according to UL 508
			Suitable for	Feeder circuits, branch circuits
			Current Limiting CB	Yes
			Max. Voltage Rating	480 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
Terminals as accessory		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL CCN	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			NA Certification	UL Listed, CSA certified
			Specially designed for NA	Yes, additionally calibrated according to UL 508
			Suitable for	Feeder circuits, branch circuits
			Current Limiting CB	Yes
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, electronic releases, 3 pole
NZM...VX...NA

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		
								

System and cable protection, selectivity and generator protection

Adjustable overload release I_r
R.m.s. value measurement and "thermal memory"

Normal switching capacity

sg04315 Symbolphoto

35	35	25	-	100	40 - 100	2 - 18	NZMN2-VX100-NA	192448
				160	64 - 160	2 - 18	NZMN2-VX160-NA	192449
				250	100 - 250	2 - 12	NZMN2-VX250-NA	192450

1230PIC-711 Symbolphoto

42	42	35	35	250	100 - 250	2 - 18	NZMN3-VX250-NA	192502
				400	160 - 400	2 - 12	NZMN3-VX400-NA	192503
				600	240 - 600	2 - 8	NZMN3-VX600-NA	192504

1230PIC-715 Symbolphoto

42	42	35	35	800	320 - 800	2 - 18	NZMN4-VX800-NA	192551
				1000	400 - 1000	2 - 18	NZMN4-VX1000-NA	192552
				1200	480 - 1200	2 - 15	NZMN4-VX1200-NA	192553

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America

NZMN2-VX100-BT-NA	192517	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-VX160-BT-NA	192518		UL File No.	E31593
NZMN2-VX250-BT-NA	192519		UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	600Y/347 V, 480 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
Terminals as accessory		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
Terminals as accessory		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	No
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, electronic releases, 3 pole
NZM...VX...NA

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		
System and cable protection								
Fixed overload releases I_r								
High switching capacity								
sg04315 Symbolphoto 	100	100	50	-	100	40 - 100	2 - 18	NZMH2-VX100-NA	192473
					160	64 - 160	2 - 18	NZMH2-VX160-NA	192474
					250	100 - 250	2 - 12	NZMH2-VX250-NA	192475
1230PIC-711 Symbolphoto 	100	100	50	50	250	100 - 250	2 - 18	NZMH3-VX250-NA	192533
					400	160 - 400	2 - 12	NZMH3-VX400-NA	192534
					600	240 - 600	2 - 8	NZMH3-VX600-NA	192535
1230PIC-715 Symbolphoto 	85	85	50	50	800	320 - 800	2 - 18	NZMH4-VX800-NA	192569
					1000	400 - 1000	2 - 18	NZMH4-VX1000-NA	192570
					1200	480 - 1200	2 - 15	NZMH4-VX1200-NA	192571

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America

NZMH2-VX100-BT-NA	192459	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMH2-VX160-BT-NA	192460		UL File No.	E31593
NZMH2-VX250-BT-NA	192461		UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	600Y/347 V, 480 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -

Terminals as accessory		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -

Terminals as accessory		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	No
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, electronic releases with energy meter function, 3 pole
NZM... PMX...NA

Switching capacity				Rated current =	Setting range		Fixed mounting with screw terminals Part no.	Article no.	Std. pack
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed			
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$			

Motor protection

Fixed overload releases I_r

Normal switching capacity

wa_ren_00318_r Symbolphoto

35	35	25	-	90	36 - 90	2 - 18	NZMN2-PMX90-NA	192580	1 Off
				140	56 - 140	2 - 18	NZMN2-PMX140-NA	192581	
				200	88 - 220	2 - 15	NZMN2-PMX220-NA	192582	

wa_ren_00818_r Symbolphoto

42	42	35	35	250	100 - 250	2 - 18	NZMN3-PMX250-NA	193350	1 Off
				350	175 - 350	2 - 15	NZMN3-PMX350-NA	193351	
				450	225 - 450	2 - 12	NZMN3-PMX450-NA	193352	

High switching capacity

wa_ren_00318_r Symbolphoto

100	100	50	-	90	36 - 90	2 - 18	NZMH2-PMX90-NA	192583	1 Off
				140	56 - 140	2 - 18	NZMH2-PMX140-NA	192584	
				200	88 - 220	2 - 15	NZMH2-PMX200-NA	192585	

wa_ren_00818_r Symbolphoto

100	100	50	50	250	175 - 350	2 - 18	NZMH3-PMX250-NA	193353	1 Off
				350	175 - 350	2 - 15	NZMH3-PMX350-NA	193354	
				450	225 - 450	2 - 12	NZMH3-PMX450-NA	193355	

Information relevant for export to North America

For further terminal types
see accessories

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
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CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, electronic releases with energy meter function, 3 pole NZM...PX...NA

Fixed mounting with screw terminals

Switching capacity				Rated current =	Setting range		Part no.	Article no.	Std. pack
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed			
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$			

System and cable protection

For further terminal types see accessories

Fixed overload releases I_r

Normal switching capacity

wa_ren_00318_r Symbolphoto

35	35	25	-	40	20 - 40	2 - 18	NZMN2-PX40-NA	192572	1 Off
				100	40 - 100	2 - 18	NZMN2-PX100-NA	192573	
				160	64 - 160	2 - 18	NZMN2-PX160-NA	192574	
				250	100 - 250	2 - 12	NZMN2-PX250-NA	192575	

wa_ren_00318_r Symbolphoto

42	42	35	35	250	100 - 250	2 - 18	NZMN3-PX250-NA	192586	1 Off
				400	160 - 400	2 - 12	NZMN3-PX400-NA	192587	
				600	240 - 600	2 - 8	NZMN3-PX600-NA	192588	

wa_ren_01818_r Symbolphoto

42	42	35	35	800	320 - 800	2 - 18	NZMN4-PX800-NA	192592	1 Off
				1000	400 - 1000	2 - 18	NZMN4-PX1000-NA	192593	
				1200	480 - 1200	2 - 15	NZMN4-PX1200-NA	192594	

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting with screw terminals Part no.	Article no.	Std. pack
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed			
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$			

System and cable protection

For further terminal types see accessories

Fixed overload releases I_r

High switching capacity

wa_ren_00318_r Symbolphoto

100	100	50	-	40	20 - 40	2 - 18	NZMH2-PX40-NA	192576	1 Off
				100	40 - 100	2 - 18	NZMH2-PX100-NA	192577	
				160	64 - 160	2 - 18	NZMH2-PX160-NA	192578	
				250	100 - 250	2 - 12	NZMH2-PX250-NA	192579	

wa_ren_00818_r Symbolphoto

100	100	50	50	250	100 - 250	2 - 18	NZMH3-PX250-NA	192589	1 Off
				400	160 - 400	2 - 12	NZMH3-PX400-NA	192590	
				600	240 - 600	2 - 8	NZMH3-PX600-NA	192591	

wa_ren_01818_r Symbolphoto

85	85	50	50	800	320 - 800	2 - 18	NZMH4-PX800-NA	192595	1 Off
				1000	400 - 1000	2 - 18	NZMH4-PX1000-NA	192596	
				1200	480 - 1200	2 - 15	NZMH4-PX1200-NA	192597	

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers UL/CSA, IEC, thermomagnetic releases, 4 pole
NZM...-4-AF...NA

Switching capacity				Rated current =	Setting range			Fixed mounting	
								Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Neutral conductor I_r x % of phase conductor	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A		I_r A	$I_i = I_n x...$		
									

System and cable protection

Fixed overload releases I_r

Basic switching capacity

1230PIC-801 Symbolphoto

25	25	-	-	60	100	60 A fixed	6 - 10	-	
				70	100	70 A fixed	6 - 10	-	
				80	100	80 A fixed	6 - 10	-	
				90	100	90 A fixed	6 - 10	-	
				100	100	100 A fixed	6 - 10	-	
				110	100	110 A fixed	6 - 10	-	
				125	100	125 A fixed	6 - 10	-	
				150	100	150 A fixed	6 - 10	-	
				175	100	175 A fixed	6 - 10	-	
				200	100	200 A fixed	6 - 10	-	
				225	100	225 A fixed	6 - 10	-	
				250	100	250 A fixed	6 - 10	-	

Normal switching capacity

1230PIC-801 Symbolphoto

35	35	-	-	60	100	60 A fixed	6 - 10	NZMN2-4-AF60-NA	190347
				70	100	70 A fixed	6 - 10	-	
				80	100	80 A fixed	6 - 10	NZMN2-4-AF80-NA	190348
				90	100	90 A fixed	6 - 10	-	
				100	100	100 A fixed	6 - 10	NZMN2-4-AF100-NA	190349
				110	100	110 A fixed	6 - 10	-	
				125	100	125 A fixed	6 - 10	NZMN2-4-AF125-NA	190350
				150	100	150 A fixed	6 - 10	NZMN2-4-AF150-NA	190351
				175	100	175 A fixed	6 - 10	-	
				200	100	200 A fixed	6 - 10	NZMN2-4-AF200-NA	190352
				225	100	225 A fixed	6 - 10	NZMN2-4-AF225-NA	190353
				250	100	250 A fixed	6 - 10	NZMN2-4-AF250-NA	190354

High switching capacity

1230PIC-801 Symbolphoto

150	150	-	-	60	100	60 A fixed	6 - 10	-	
				70	100	70 A fixed	6 - 10	-	
				80	100	80 A fixed	6 - 10	-	
				90	100	90 A fixed	6 - 10	-	
				100	100	100 A fixed	6 - 10	-	
				110	100	110 A fixed	6 - 10	-	
				125	100	125 A fixed	6 - 10	-	
				150	100	150 A fixed	6 - 10	-	
				175	100	175 A fixed	6 - 10	-	
				200	100	200 A fixed	6 - 10	-	
				225	100	225 A fixed	6 - 10	-	
				250	100	250 A fixed	6 - 10	NZMH2-4-AF250-NA	172967

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America

For further terminal types see accessories

NZMB2-4-AF60-BT-NA	153380	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB2-4-AF70-BT-NA	153381		UL File No.	E31593
NZMB2-4-AF80-BT-NA	153382		UL Category Control No.	DIVQ
NZMB2-4-AF90-BT-NA	153383		CSA File No.	-
NZMB2-4-AF100-BT-NA	153384		CSA Class No.	-
NZMB2-4-AF110-BT-NA	153385		North America Certification	UL listed
NZMB2-4-AF125-BT-NA	113011		Specially designed for NA	Yes
NZMB2-4-AF150-BT-NA	113012		Suitable for	Feeder circuits, branch circuits
NZMB2-4-AF175-BT-NA	113013		Current Limiting Circuit breaker	Yes
NZMB2-4-AF200-BT-NA	113014		Max. Voltage Rating	480 V
NZMB2-4-AF225-BT-NA	113015		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB2-4-AF250-BT-NA	113016			

NZMN2-4-AF60-BT-NA	153386	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-4-AF70-BT-NA	153387		UL File No.	E31593
NZMN2-4-AF80-BT-NA	153388		UL Category Control No.	DIVQ
NZMN2-4-AF90-BT-NA	153389		CSA File No.	-
NZMN2-4-AF100-BT-NA	153390		CSA Class No.	-
NZMN2-4-AF110-BT-NA	153391		North America Certification	UL listed
NZMN2-4-AF125-BT-NA	113005		Specially designed for NA	Yes
NZMN2-4-AF150-BT-NA	113006		Suitable for	Feeder circuits, branch circuits
NZMN2-4-AF175-BT-NA	113007		Current Limiting Circuit breaker	Yes
NZMN2-4-AF200-BT-NA	113008		Max. Voltage Rating	480 V
NZMN2-4-AF225-BT-NA	113009		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN2-4-AF250-BT-NA	113010			

NZMH2-4-AF60-BT-NA	153392	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMH2-4-AF70-BT-NA	153393		UL File No.	E31593
NZMH2-4-AF80-BT-NA	153394		UL Category Control No.	DIVQ
NZMH2-4-AF90-BT-NA	153395		CSA File No.	-
NZMH2-4-AF100-BT-NA	153396		CSA Class No.	-
NZMH2-4-AF110-BT-NA	153397		North America Certification	UL listed
NZMH2-4-AF125-BT-NA	113017		Specially designed for NA	Yes
NZMH2-4-AF150-BT-NA	113018		Suitable for	Feeder circuits, branch circuits
NZMH2-4-AF175-BT-NA	113019		Current Limiting Circuit breaker	Yes
NZMH2-4-AF200-BT-NA	113020		Max. Voltage Rating	480 V
NZMH2-4-AF225-BT-NA	113021		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMH2-4-AF250-BT-NA	113022			

Molded case switches for North America
NS...NA

Switching capacity				Rated current =	Setting range	Fixed mounting	
						Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Short-circuit release		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_i A		

Molded case switches for North America

With permanently set short-circuit release (self-protection)
Can be remotely operated with shunt release XU/XA, remote operator XR,
Can be equipped with trip-indicating auxiliary contact M22-K...

3 switch positions I, +, 0

1230PIC-752 Symbolphoto

35	-	-	-	63	1250 A fixed	NS1-63-NA	102681
				100	1250 A fixed	NS1-100-NA	102682
				125	1250 A fixed	NS1-125-NA	102683

1230PIC-796 Symbolphoto

100	100	50	-	160	2500 A fixed	NS2-160-NA	102684
				200	2500 A fixed	NS2-200-NA	102685
				250	2500 A fixed	NS2-250-NA	102686

1230PIC-671 Symbolphoto

100	100	50	50	400	6600 A fixed	NS3-400-NA	102687
				600	6600 A fixed	NS3-600-NA	102688

1230PIC-674 Symbolphoto

65	65	42	42	800	25000 A fixed	NS4-800-NA	102689
				1000	25000 A fixed	NS4-1000-NA	102690
				1200	25000 A fixed	NS4-1200-NA	102691

Fixed mounting with box terminals

Part no.	Article no.	Std. pack	Information relevant for export to North America

For further terminal types see accessories

Terminals as accessory		1 Off	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking UL File No.: E148671 UL Category Control No.: WJAZ CSA File No.: 022086 CSA Class No.: 4652-06 North America Certification: UL listed, CSA certified Specially designed for NA: Yes Suitable for: Feeder circuits, branch circuits Current Limiting Circuit breaker: No Max. Voltage Rating: 480Y/277 V Degree of Protection: IEC: IP20; UL/CSA Type: -
NS2-160-BT-NA	107578		Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking UL File No.: E148671 UL Category Control No.: WJAZ CSA File No.: 022086 CSA Class No.: 4652-06 North America Certification: UL listed, CSA certified Specially designed for NA: Yes Suitable for: Feeder circuits, branch circuits Current Limiting Circuit breaker: No Max. Voltage Rating: 600Y/347 V Degree of Protection: IEC: IP20; UL/CSA Type: -
NS2-200-BT-NA	107579		
NS2-250-BT-NA	107610		
Terminals as accessory			Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking UL File No.: E148671 UL Category Control No.: WJAZ CSA File No.: 022086 CSA Class No.: 4652-06 North America Certification: UL listed, CSA certified Specially designed for NA: Yes Suitable for: Feeder circuits, branch circuits Current Limiting Circuit breaker: No Max. Voltage Rating: 600 V Degree of Protection: IEC: IP20; UL/CSA Type: -
Terminals as accessory			Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking UL File No.: E148671 UL Category Control No.: WJAZ CSA File No.: 022086 CSA Class No.: 4652-06 North America Certification: UL listed, CSA certified Specially designed for NA: Yes Suitable for: Feeder circuits, branch circuits Current Limiting Circuit breaker: No Max. Voltage Rating: 600 V Degree of Protection: IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers IEC for 1000 V AC, 3 pole
NZM... Releases

Switching capacity 1000 V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Fixed mounting Part no.	Article no.	Std. pack
I_{cu} kA	$I_n = I_u$ A	I_r A	$I_{sd} = I_r x \ldots$			

System and cable protection

Thermomagnetic releases

1230PIC-802 Symbolphoto

10	20	15 - 20	350 A fixed	NZMH2-A20-S1	290355	1 Off
	25	20 - 25	350 A fixed	NZMH2-A25-S1	290356	
	32	25 - 32	350 A fixed	NZMH2-A32-S1	290357	
	40	32 - 40	8 - 10	NZMH2-A40-S1	290358	
	50	40 - 50	6 - 10	NZMH2-A50-S1	290359	
	63	50 - 63	6 - 10	NZMH2-A63-S1	290360	
	80	63 - 80	6 - 10	NZMH2-A80-S1	290361	
	100	80 - 100	6 - 10	NZMH2-A100-S1	290362	
	125	100 - 125	6 - 10	NZMH2-A125-S1	290363	
	160	125 - 160	6 - 10	NZMH2-A160-S1	290364	
	200	160 - 200	6 - 10	NZMH2-A200-S1	290365	
	250	200 - 250	6 - 10	NZMH2-A250-S1	290366	
	300	120 - 300	5 - 8.3	NZMH2-A300-S1	107577	

Rated current =			Short-circuit protection	Fixed mounting Part no.	Article no.	Std. pack
Rated uninterrupted current	Rated operating voltage	Rated short-time withstand current	max. fuse gR characteristic			
I_n	U_e	I_{cw} (N2/N3: t=1s, N4: t=0.1s)				
A	V	kA	A			

Switch disconnectors for 1000 V DC

1230PIC-797 Symbolphoto

160	1000	3.6	200	N2-4-160-S1-DC	127732	1 Off
200	1000	3.6	200	N2-4-200-S1-DC	127733	
250	1000	3.6	200	N2-4-250-S1-DC	154940	

1230PIC-672 Symbolphoto

320	1000	6.6	2x250	N3-4-320-S1-DC	127734	1 Off
400	1000	6.6	2x250	N3-4-400-S1-DC	142267	
500	1000	6.6	2x250	N3-4-500-S1-DC	142268	
550	1000	6.6	2x250	N3-4-550-S1-DC	168567	

1230PIC-673 Symbolphoto

800	1000	34	-	N4-4-800-S1-DC	119890	1 Off
1000	1000	34	-	N4-4-1000-S1-DC	119891	
1250	1000	34	-	N4-4-1250-S1-DC	119886	
1400	1000	34	-	N4-4-1400-S1-DC	119887	
1600	1000	34	-	N4-4-1600-S1-DC	152552	

1230PIC-673 Symbolphoto

800	1000	34	-	N4-4-800-S1-PV-NA	179325	1 Off
1000	1000	34	-	N4-4-1000-S1-PV-NA	179326	
1100	1000	34	-	N4-4-1100-S1-PV-NA	179591	
1200	1000	34	-	N4-4-1200-S1-PV-NA	179327	

Compact circuit breakers, switch disconnectors

Switch disconnectors UL/CSA, IEC for 1500 V DC, 1/2 pole
N...DC

	Rated current =			Short-circuit protection	Fixed mounting Part no.	Article no.	Std. pack
	Rated uninterrupted current	Rated operating voltage	Rated short-time withstand current	max. fuse gR characteristic			
	I_n	U_e	I_{cw} (N2/N3: t=1s, N4: t=0.1s)				
	A	V	kA	A			

Switch disconnectors for 1500 V DC

1230PIC-797 Symbolphoto

160	1500	3.6	-	N2-4-160-S15-DC	167688	1 Off
200	1500	3.6	-	N2-4-200-S15-DC	167689	
250	1500	3.6	-	N2-4-250-S15-DC	167690	

1230PIC-672 Symbolphoto

320	1500	6.6	-	N3-4-320-S15-DC	166407	1 Off
400	1500	6.6	-	N3-4-400-S15-DC	166408	
500	1500	6.6	-	N3-4-500-S15-DC	166409	
550	1500	6.6	-	N3-4-550-S15-DC	168568	

1230PIC-673 Symbolphoto

800	1500	34	-	N4-4-800-S15-DC	166413	1 Off
1000	1500	34	-	N4-4-1000-S15-DC	166414	
1250	1500	34	-	N4-4-1250-S15-DC	166415	
1400	1500	34	-	N4-4-1400-S15-DC	166416	
1600	1500	34	-	N4-4-1600-S15-DC	166417	

1230PIC-673 Symbolphoto

800	1500	34	-	N4-4-800-S15-PV-NA	179328	1 Off
1000	1500	34	-	N4-4-1000-S15-PV-NA	179329	
1100	1500	34	-	N4-4-1100-S15-PV-NA	179592	
1200	1500	34	-	N4-4-1200-S15-PV-NA	179330	


ST 430

Photovoltaic - Switch disconnectors up to 1500 V
Bridge kits

Rated current = 2 pole (+ and -) on one side I_n A	Protection class	For use with	Notes	Part no.	Article no.	Std. pack

Bridge kits NZM...-XKV...2P...

Model contains parts for upper or lower row of switchgear side for 4 pole switches N4-4…-S1(S15)… that are used as 2 pole switches for DC
The links each connect two contacts in series
Incoming unit and outgoer at bottom according to the switching diagrams
N4-4-... ≥1250A at 65°C alternate connection at bottom through module plates NZM4-4-XKM2S-1600
For IEC application: For N4-4 -...- S15-PV-NA, feed only from below in connection with NZM4-4-XKV(I)2P(-K).

1230PIC-690, 1230PIC-1015 Symbolphoto

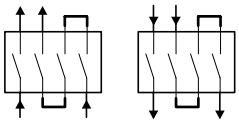
Incl. cover

Rated current = 2 pole (+ and -) on one side I_n A	Protection class	For use with	Notes	Part no.	Article no.	Std. pack
225 (40°C,) 170 (65°C)	IP2X	N2-4-...-S1(-S15)-DC		NZM2-4-XKV2P	131730	1 Off
250 (40°C,) 190 (65°C)	IP2X	N2-4-...-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKV2P-K	168585	
517 (40°C,) 435 (65°C)	IP2X	N3-4-...-S1(-S15)-DC		NZM3-4-XKV2P	131731	
550 (40°C,) 468 (65°C)	IP2X	N3-4-...-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKV2P-K	142271	
1400 (40°C) 1260 (65°C)	IP2X	N4-4-...-S1(-S15)-DC N4-4-...-S1(-S15)-PV-NA		NZM4-4-XKV2P	119888	

1230PIC-1016, 1230PIC-1017Symbolphoto

Incl. insulation plates and phase separator

Rated current = 2 pole (+ and -) on one side I_n A	Protection class	For use with	Notes	Part no.	Article no.	Std. pack
238 (40°C) 180 (65°C)	IP00	N2-4-...-S1(-S15)-DC		NZM2-4-XKVI2P	168586	1 Off
250 (40°C) 213 (65°C)	IP00	N2-4-...-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKVI2P-K	168587	
400 (40°C,) 338 (65°C)	IP2X	N3-4-...-S1(-S15)-DC		NZM3-4-XKV2POU	168589	
550 (40°C) 501 (65°C)	IP00	N3-4-...-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKVI2P-K	142270	
1400A (40°C) 1260A (65°C)	IP00	N4-4-800(1000)(1250)(1400)-S1(S15)-DC N4-4-...-S1(S15)-PV-NA		NZM4-4-XKVI2P	180020	
1600 (40°C) 1500 (65°C)	IP00	N4-4-...-S1(-S15)-DC N4-4-...-S1(-S15)-PV-NA	Incl. cooling unit	NZM4-4-XKV2P-K	152553	

Rated current = 2 pole (+ and -) Double-sided I_n A	Protecton class	For use with 	Notes	Part no.	Article no.	Std. pack

Bridge kits NZM...-XKV...2POU...

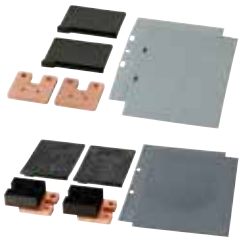
Model contains parts for upper and lower row of switchgear side for 4 pole switches N...-S1(S15)-DC that are used as 2 pole switches for DC
The links each connect three contacts in series
Incoming unit and outgoer at bottom or top, according to the switching diagrams

1230PIC-1138, 1230PIC-1311 Symbolphoto

Incl. cover

200 (40°C) 160 (65°C)	IP2X	N2-4-...-S1(-S15)-DC		NZM2-4-XKV2POU	144070	1 Off
225 (40°C) 170 (65°C)	IP2X	N2-4-...-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKV2POU-K	168588	
400 (40°C) 388 (65°C)	IP2X	N3-4-...S1(S15)-DC		NZM3-4-XKV2POU	168589	
517 (40°C) 435 (65°C)	IP2X	N3-4-...-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKV2POU-K	168590	

1230PIC-1144, 1230PIC-1146 Symbolphoto

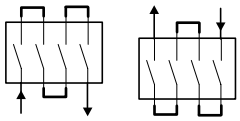


Incl. insulation plates and phase separator

213 (40°C) 160 (65°C)	IP00	N2-4-...-S1(-S15)-DC		NZM2-4-XKVI2POU	170118	1 Off
238 (40°C) 180 (65°C)	IP00	N2-4-...-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKVI2POU-K	170119	
501 (40°C) 418 (65°C)	IP00	N3-4-...-S1(-S15)-DC		NZM3-4-XKVI2POU	170120	
534 (40°C) 451 (65°C)	IP00	N3-4-...-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKVI2POU-K	170121	

Photovoltaic - Switch disconnectors up to 1500 V
Bridge kits

Rated current = 1 pole (+ or -) on one side I_n A	Protection class	For use with	Notex	Part no.	Article no.	Std. pack



Bridge kits NZM...-XKV...1P...

Model contains parts for upper and lower row of switchgear side for 4 pole switches N4-4…-S1(S15)… that are used as 1 pole switches for DC
The links each connect four contact in series (plus or minus)
Incoming unit and outgoer at bottom or top, according to the switching diagrams

1230PIC-1313, 1230PIC-1310 Symbolphoto

Incl. cover

200 (40°C) 160 (65°C)	IP2X	N2-4-160(200)-S1 (-S15)-DC		NZM2-4-XKV1P	168591	1 Off
225 (40°C) 170 (65°C)	IP2X	N2-4-...-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKV1P-K	168592	
400 (40°C) 338 (65°C)	IP2X	N3-4-320(400)-S1(-S15)-DC		NZM3-4-XKV1P	168593	
517 (40°C) 435 (65°C)	IP2X	N3-4-400(500)-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKV1P-K	168594	
1274 (40°C) 1138 (65°C)	IP2X	N4-4-...-S1(-S15)-DC N4-4-800(1000)(1100)-S1(-S15)-PV-NA		NZM4-4-XKV1P	119889	

1230PIC-1145, 1230PIC-1315 Symbolphoto

Incl. insulation plates

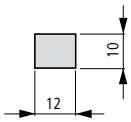
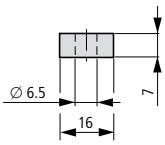
213 (40°C) 160 (65°C)	IP00	N2-4-...-S1(-S15)-DC		NZM2-4-XKVI1P	168595	1 Off
238 (40°C) 180 (65°C)	IP00	N2-4-200(250)-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKVI1P-K	168596	
501 (40°C) 418 (65°C)	IP00	N3-4-...-S1(S15)-DC		NZM3-4-XKVI1P	168597	
534 (40°C) 451 (65°C)	IP00	N3-4-...-S1(S15)-DC	Incl. cooling unit	NZM3-4-XKVI1P-K	168598	
1260 (40°C) 1138 (65°C)	IP00	N4-4-(800)(1000)(1250)(1400)-S1(-S15)-DC N4-4-...-S1(-S15)-PV-NA		NZM4-4-XKVI1P	180019	
1552 (40°C) 1448 (65°C)	IP00	N4-4-...-S1(-S15)-DC N4-4-...-S1(-S15)-PV-NA	Incl. cooling unit	NZM4-4-XKV1P-K	179331	

				Fixed mounting		
Switching capacity 1000 V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range		Part no.	Article no.	Std. pack
		Overload releases	Short-circuit releases Non-delayed			
I_{cu} kA	$I_n = I_u$ A	I_r A	$I_{sd} = I_r x \ldots$			
						

System and cable protection

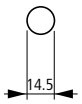
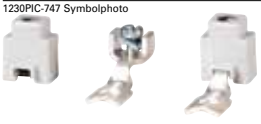
Thermomagnetic -A Releases

1230PIC-703 Symbolphoto 	30	400	320 - 400	2150 A DC fixed	NZMN3-A400-S07-DC	189599	1 Off
1230PIC-702 Symbolphoto 	30	400	320 - 400	2150 A DC fixed	NZMN3-A400-S07-DC-PIT	189600	1 Off

	Max. cable connection area	Number of poles	For use with	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
				Box terminal Standard equipment				
1230PIC-721 Symbolphoto 		3 pole	NZM1, PN1, N(S)1	Copper cable	1 x 10 - 70 2 x 6 - 25 [1]	1 x 12 - 2/0	≧ 2 x 9 x 0.8	-
		4 pole	NZM1-4, PN1-4, N1-4	Copper cable	1 x 10 - 70 2 x 6 - 25 [1]	1 x 12 - 2/0	≧ 2 x 9 x 0.8	-
				Screw terminals				
sg08415 Symbolphoto 		1 pole	NZM1-1	Copper cable lugs Aluminium cable lugs	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 [1]	1 x 12 - 2/0	-	≧ 12 x 5
1230PIC-677 Symbolphoto 		3 pole	NZM1, PN1, N(S)1	Copper cable lugs Aluminium cable lugs	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 [1]	1 x 12 - 2/0	-	≧ 12 x 5
		4 pole	NZM1-4, PN1-4, N1-4	Copper cable lugs Aluminium cable lugs	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 [1]	1 x 12 - 2/0	-	≧ 12 x 5

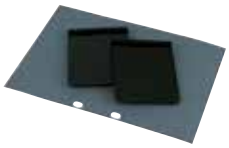
Notes: [1] Up to 95 mm² can be connected depending on make of cable

Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America	
NZM1-XKC	260015	1 set	Standard connection with all NZM1, PN1 and N(S)1 switches. Conversion kit for circuit breaker with screw terminal. Contains parts for a 3 or 4 pole switch side. Fitted within the switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E31593 DIHS 022086 1437-01 UL Listed, CSA certified Refer to main component information
NZM1-4-XKC	267075	1 set		-	
NZM1-1-XKS	152620	1 set	Contains parts for a terminal located at top or bottom for 1 pole circuit breaker. Flush mounting outside the switch housing. Cover NZM1(-4)-XKSA must be fitted (included as standard).	-	
NZM1-XKS	260019	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Flush mounting outside the switch housing. Cover NZM1(-4)-XKSA must be fitted (included as standard).	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E31593 DIHS 022086 1437-01 UL Listed, CSA certified Refer to main component information
NZM1-4-XKS	266725	1 set		-	

	Max. cable connection area	Number of poles	For use with	Terminal capacity Cable Cable lugs	Terminal capacity mm²	Terminal capacity AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Terminal capacity Copper bar Width x thickness mm
Tunnel terminal								
sg08115 Symbolphoto 		3 pole	NZM1, PN1, N(S)1	Copper cable ⍥⍢ Aluminium cable [1] ⍥⍢	6 x 2.5 - 16	6 x 14 - 6	-	-
1230PIC-683 Symbolphoto 			NZM1, PN1, N(S)1	Copper cable ⍥⍢ Aluminium cable [1] ⍥⍢	1 x 16 - 95	1 x 6 - 3/0	-	-
sg08015 Symbolphoto 		4 pole	NZM1-4, PN1-4, N1-4	Copper cable ⍥⍢ Aluminium cable [1] ⍥⍢	6 x 2.5 - 16	6 x 14 - 6	- -	- -
1230PIC-676 Symbolphoto 			NZM1-4, PN1-4, N1-4	Copper cable ⍥⍢ Aluminium cable [1] ⍥⍢	1 x 16 - 95	1 x 6 - 3/0	-	-
Rear terminal bolts Not UL/CSA approved								
1230PIC-1428 Symbolphoto 	–	3 pole	NZM1, PN1, N1	Copper cable lugs Aluminium cable lugs	-	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 [1]	-	min. 12 x 5 max. 16 x 5
1230PIC-898 Symbolphoto 	–	4 pole	NZM1-4, PN1-4, N1-4	Copper cable lugs Aluminium cable lugs	-	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 [1]	-	min. 12 x 5 max. 16 x 5
Control cable terminals								
1230PIC-729 Symbolphoto 	-	3 and 4 pole	NZM1(-4), PN1(-4), N(S)1(-4)	Screw terminals	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-	-
1230PIC-747 Symbolphoto 	-	3 and 4 pole	NZM1(-4), PN1(-4), N(S)1(-4)	Screw terminals	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-	-

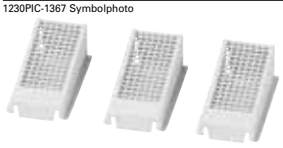
Notes: [1] Up to 95 mm² can be connected depending on make of cable

Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1-XKAM	144112	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. With control circuit terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 14 AWG) copper conductor. Flush mounting outside the switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules. Cover NZM1(-4)-XKSA must be fitted (included as standard).	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
NZM1-XKA	266730			
NZM1-4-XKAM	144114	1 set		-
NZM1-4-XKA	266731			
NZM1-XKR	266734	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers.	-
NZM1-4-XKR	266737	1 set		-
NZM1-XSTS	260150	1 set	Contains for two terminal locations located at top or bottom for 3 or 4 pole circuit breakers. Included as standard with tunnel terminal. Degree of protection IP1X NZM-XSTK cannot be combined with NZM1(-4)-XIPK IP2X protection against contact with a finger. Height or thickness of connections: NZM-XSTK = 2 mm NZM-XSTS = 2 mm	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E140305 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
NZM-XSTK	266739			

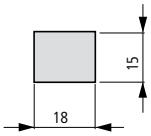
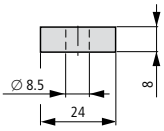
	Max. cable connection area	Number of poles	For use with	Connection	Terminal capacity	AWG/kcmil
					mm²	
Terminal covers knockout						
Not UL/CSA approved. For box terminal						
1230PIC-176 Symbolphoto 	-	3 pole	NZM1, PN1, N1	-	-	-
1230PIC-678 Symbolphoto 	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-
Cover						
wa_sg02316 Symbolphoto 	-	1 pole	NZM1-1	-	-	-
1230PIC-686 Symbolphoto 	-	3 pole	NZM1, PN1, N1	-	-	-
1230PIC-686 Symbolphoto 	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-
Phase isolators						
sg09115 Symbolphoto 	-	3 pole	NZM1, PN1, N(S)1	-	-	-
1230PIC-1014 Symbolphoto 	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-

Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1-XKSFA NZM1-XKSFA-GVP	100780 112632	1 Off 50 Off	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Enhanced contact protection (simplified finger protection). Cannot be combined with NZM-XSTK control circuit terminal.	UL/CSA certification not required
NZM1-4-XKSFA	100781	1 Off		-
NZM1-1-XKSA	152549	1 Off	Contains parts for a terminal located at top or bottom for 1 pole switches. Contact protection against direct contact where cable lugs, bars or tunnel terminals are used. When using insulated conductor material to degree of protection IP1X.	-
NZM1-XKSA	260021	1 Off	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Contact protection against direct contact where cable lugs, bars or tunnel terminals are used. Contained in the set with tunnel terminals and screw terminals. When using insulated conductor material to degree of protection IP1X	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
NZM1-4-XKSA	266741	1 Off		-
NZM1-XKP	119862	1 set	Contains parts, including insulating plate for mounting plate, for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Can not be combined with connection on rear NZM1/2(-4)-XKR. Insulation protection up to a rated operating voltage U_e von 415V AC when minimum distances are not maintained.	UL/CSA certification not required
NZM1-4-XKP	119863	1 set		-

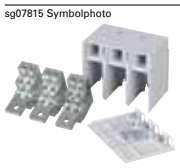
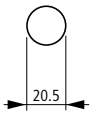
Terminals
NZM1

	Max. cable connection area	Number of poles	For use with	Connection	Terminal capacity	AWG/kcmil
					mm²	
	IP2X Protection against contact with finger For box terminal					
1230PIC-1360 Symbolphoto 	-	1 pole	NZM1-1	-	-	-
1230PIC-1368 Symbolphoto 	-	3 pole	NZM1, PN1, N1	-	-	-
1230PIC-675 Symbolphoto 	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-
	IP2X Protection against contact with finger For covers NZM1(-4)-XKSA or NZM1…(C)NA, N(S)1…NA					
1230PIC-1359 Symbolphoto 	-	1 pole	NZM1-1	-	-	-
1230PIC-1367 Symbolphoto 	-	3 pole	NZM1, PN1, N1	-	-	-
1230PIC-720 Symbolphoto 	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-

Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America 
NZM1-1-XIPK	152551	1 set	Contains parts for a terminal located at top or bottom for 1 pole switches. Enhanced contact protection to IP2X. Protection when reaching into the cable connection area with the connection of cables in the box terminal. Cannot be combined with NZM-XSTK control circuit terminal.	UL/CSA certification not required
NZM1-XIPK	266744	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches Enhanced contact protection to IP2X. Protection when reaching into the cable connection area with the connection of cables in the box terminal. Cannot be combined with NZM-XSTK control circuit terminal.	UL/CSA certification not required
NZM1-4-XIPK	266745	1 set		-
NZM1-1-XIPA	152550	1 set	Contains parts for a terminal located at top or bottom for 1 pole switches. Enhanced contact protection to IP2X.	UL/CSA certification not required
NZM1-XIPA	266748	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Enhanced contact protection to IP2X.	UL/CSA certification not required
NZM1-4-XIPA	266749	1 set		-

	Max. cable connection area	Number of poles	For use with	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
	Box terminal							
1230PIC-725 Symbolphoto 		3 pole	NZM2, PN2, N(S)2 ≤ 160 A	Copper cable	1 x 10 - 185 2 x 4 - 70	1 x 12 - 350	≧ 2 x 9 x 0.8	-
			NZM2, PN2, N(S)2 > 160 A	Copper cable	1 x 10 - 185 2 x 4 - 70	1 x 12 - 350	≧ 2 x 9 x 0.8	-
1230PIC-721 Symbolphoto 		4 pole	NZM2-4, PN2-4, N2-4 ≤ 160 A	Copper cable	1 x 10 - 185 2 x 4 - 70	1 x 12 - 350	≧ 2 x 9 x 0.8	-
			NZM2-4, PN2-4, N2-4 > 160 A	Copper cable	1 x 10 - 185 2 x 4 - 70	1 x 12 - 350	≧ 2 x 9 x 0.8	-
	Screw terminals Standard equipment							
1230PIC-731 Symbolphoto 		3 pole	NZM2, PN2, N(S)2	Copper cable lugs Aluminium cable lugs	1 x 10 - 185 2 x 4 - 70 1 x 10 - 50 2 x 10 - 50	1 x 12 - 350	≧ 2 x 16 x 0.8	≧ 16 x 5
1230PIC-725 Symbolphoto 		4 pole	NZM2-4, PN2-4, N2-4	Copper cable lugs Aluminium cable lugs	1 x 10 - 185 2 x 4 - 70 1 x 10 - 50 2 x 10 - 50	1 x 12 - 350	≧ 2 x 16 x 0.8	≧ 16 x 5

Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
+NZM2-160-XKCO	262218	NZM2-160-XKC	262240	1 set	Part no. suffix and part no.contain parts for a circuit breaker side at top or bottom for 3 or 4 pole switches. Conversion kit for circuit breaker with screw terminal. Fitted within the switch housing. O = for fitting at the top U = for fitting at the bottom U_e ≧ 525 V AC: Use NZM2(-4)-XKSA cover. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules.	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
+NZM2-160-XKCU	262223	-				-
+NZM2-250-XKCO	262242	NZM2-250-XKC	262244	1 set		
+NZM2-250-XKCU	262243	-				
+NZM2-4-160-XKCO	266751	NZM2-4-160-XKC	266755			
+NZM2-4-160-XKCU	266753	-				
+NZM2-4-250-XKCO	266752	NZM2-4-250-XKC	266756			
+NZM2-4-250-XKCU	266754	-				
-		NZM2-XKS	260030	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Standard connection with all NZM2, PN2 and N2 circuit breakers. Conversion kit for circuit breaker with box terminal. Use special cable lugs narrow version → 059775 Fitted within the switch housing.	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
-		NZM2-4-XKS	266750	1 set	If a bar is used, insulation (400 mm) e.g sleeving and a NZM2(-4)-XKSA cover are required. U_e ≧ 525 V AC: With all other connection materials, e.g. cables and strips, use cover NZM2(-4)-XKSA.	-

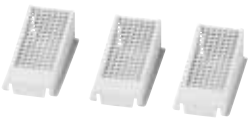
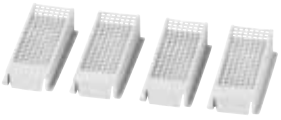
	Max. cable connection area	Number of poles	For use with	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
Tunnel terminal								
sg07815 Symbolphoto 		3 pole	NZM2, PN2, N(S)2	Copper cable ⍥⍢ Aluminium cable plugs ⍥⍢	6 x 2.5 - 35	6 x 14 - 2	-	-
1230PIC-683 Symbolphoto 			NZM2, PN2, N(S)2	Copper cable ⍥⍢ Aluminium cable ⍥⍢	1 x 16 - 185 Up to 240 mm² can be connected depending on the cable manufacturer	1 x 6 - 350 1 x 16 - 185	-	-
sg07915 Symbolphoto 		4 pole		Copper cable ⍥⍢ Aluminium cable ⍥⍢	6 x 2.5 - 35	6 x 14 - 2	- -	- -
1230PIC-676 Symbolphoto 			NZM2-4, PN2-4, N2-4	Copper cable ⍥⍢ Aluminium cable ⍥⍢	1 x 16 - 185 Up to 240 mm² can be connected depending on the cable manufacturer	1 x 6 - 350	-	-
Rear terminal bolts Not UL/CSA approved When using cable lugs without NZM3(-4)-XKSA cover, they must be insulated.								
1230PIC-1378 Symbolphoto 	-	3 pole	NZM2, PN2, N(S)2	Copper cable lugs Aluminium cable lugs	1 x 10 - 185 2 x 4 - 70 1 x 10 - 50 2 x 10 - 50	-	≧ 2 x 16 x 0.8 ≦ 6 x 24 x 0.5	≧ 16 x 5 ≦ 20 x 5
1230PIC-1376 Symbolphoto 		4 pole	NZM2-4, PN2-4, N2-4	Copper cable lugs Aluminium cable lugs	1 x 10 - 185 2 x 4 - 70 1 x 10 - 50 2 x 10 - 50	-	≧ 2 x 16 x 0.8 ≦ 6 x 24 x 0.5	≧ 16 x 5 ≦ 20 x 5
Control cable terminals								
1230PIC-729 Symbolphoto 	3 and 4 pole	NZM2(-4), PN2(-4), N(S)2(-4)	Screw terminals	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-		
1230PIC-747 Symbolphoto 	3 and 4 pole	NZM2(-4), PN2(-4), N(S)2(-4)	Box terminal	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-		

Part no.	Article no.	Std. pack	Notes	Information relevant for export to North America
Article no. when ordered separately				
NZM2-XKAM	144113	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. With control circuit terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 16 AWG) copper conductor. Flush mounting outside the switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules Cover NZM2(-4)-XKSA must be fitted (included as standard).	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
NZM1-XKA	266730			
NZM2-4-XKAM	144115	1 set		-
NZM2-4-XKA	271458			
+NZM2-XKRO	266763	NZM2-XKR	266765	1 set	Part no. suffix and part no.contain parts for a circuit breaker side at top or bottom for 3 or 4 pole switches. O = for fitting at the top U = for fitting at the bottom	-
+NZM2-XKRU	266764	-				
+NZM2-4-XKRO	266766	NZM2-4-XKR	266768			
+NZM2-4-XKRU	266767	-				
NZM2-XSTS	260156	1 set	Contains parts for two terminal locations located at top or bottom for 3 or 4 pole switches. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with IP2X protection against contact with a finger and NZM1(-4)-XIPK. Height or thickness of connections: NZM-XSTK = 2 mm NZM-XSTS = 2 mm	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E140305 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
NZM-XSTK	266739	1 set		

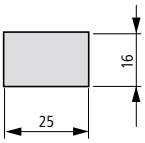
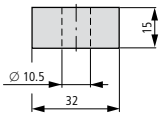
Terminals
NZM2

	Number of poles	For use with	Terminal capacity			Part no. suffix	Article no.
			Connection	Terminal capacity mm²	AWG/kcmil	Article no. for ordering with basic device	
Cable lug cover							
1230PIC-694 Symbolphoto 	3 pole	NZM2, PN2, N(S)2	Copper cable lugs	1 x 10-185 2 x 4-70	-	-	
			Aluminium cable lugs	1 x 10-50 2 x 10-50			
1230PIC-688 Symbolphoto 	4 pole	NZM2-4, PN2-4, N2-4	Copper cable lugs	1 x 10-185 2 x 4-70	-	-	
			Aluminium cable lugs	1 x 10-50 2 x 10-50			
Cover							
1230PIC-686 Symbolphoto 	3 pole	NZM2, PN2, N(S)2	-	-	-	-	
wa_sg07018 Symbolphoto 	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	-	
Phase isolators							
sg08915 Symbolphoto 	3 pole	NZM2, PN2, N(S)2	-	-	-	-	
sg09015 Symbolphoto 	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	-	
Terminal covers, knockout							
1230PIC-695 Symbolphoto 	3 pole	NZM2, PN2, N(S)2	-	-	-	+NZM2-XKSFAO	108269
						+NZM2-XKSFAU	108270
1230PIC-689 Symbolphoto 	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	+NZM2-4-XKSFAO	108271
						+NZM2-4-XKSFAU	108272

Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM2-XKSAE	119868	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Contact protection where cable lugs are used on screw terminals. When using insulated conductor material, degree of protection IP2X.	UL/CSA certification not required
NZM2-4-XKSAE	119870	1 set		-
NZM2-XKSA	260038	1 Off	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches Contact protection where cable lugs, bars or tunnel terminals are used. Included in set with tunnel terminals. When using insulated conductor material, degree of protection IP1X	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E140305 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
NZM2-4-XKSA	266770	1 Off		-
NZM2-XKP	119864	1 set	Contains parts, including insulating plate for mounting plate, for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Can not be combined with connection on rear NZM1/2(-4)-XKR. Insulation protection up to a rated operating voltage U_e of 415V AC when minimum distances are not maintained.	UL/CSA certification not required
NZM2-4-XKP	119865	1 set		-
NZM2-XKSFA -	104640	1 set	Contains parts for a terminal located at top or bottom for 3 pole switches. Enhanced contact protection (simplified finger protection).	UL/CSA certification not required
NZM2-4-XKSFA -	104641	1 Off		-

	Number of poles	For use with	Terminal capacity			Part no. suffix	Article no.
			Connection	Terminal capacity mm²	AWG/kcmil	Article no. for ordering with basic device	
		IP2X Protection against contact with finger					
		For box terminal					
1230PIC-1377 Symbolphoto 	3 pole	NZM2, PN2, N(S)2	-	-	-	-	
1230PIC-675 Symbolphoto 	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	-	
		For covers NZM2(-4)-XKSA or NZM2(-4) or NZM2…(C)NA and N(S)2…NA					
1230PIC-1367 Symbolphoto 	3 pole	NZM2, PN2, N(S)2	-	-	-	-	
1230PIC-1375 Symbolphoto 	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	-	
		Copper cable lug					
		Not UL/CSA approved					
		When using cable lugs without NZM3(-4)-XKSA cover, they must be insulated.					
1230PIC-693 Symbolphoto 	3 and 4 pole	NZM2(-4), PN2(-4), N2(-4)	-	150 mm²	-	-	
			-	120 mm²	-	-	
			-	95 mm²	-	-	
			-	185 mm²	-	-	
		Mounting adapter plate					
1230PIC-316 Symbolphoto 	3 pole	NZM2 PN2 N2	-	-	-	-	

Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM2-XIPK	266773	1 set	Contains parts for a terminal located at top or bottom for 3 switches. Enhanced contact protection to IP2X. Protection on grasping terminal chamber when connecting cables in box terminals. With two conductors maximum cross-section 25 mm² or AWG4.	UL/CSA certification not required
NZM2-4-XIPK	266774	1 set	Can not be combined with control cable terminal NZM-XSTK.	-
NZM2-XIPA	266777	1 set	Contains parts for a terminal located at top or bottom for 3 switches. Enhanced contact protection to IP2X. When fitting to NZM2-...-(C)NA or NZM…-NA: With 2 conductors maximum cross-section 25 mm² or AWG4.	UL/CSA certification not required
NZM2-4-XIPA	266778	1 set		-
KS150-NZM7	059777	3 Off	In order to crimp cable lugs when using stranded conductors, e.g., VDE 0295 Class 2 and rounded stranded sector-shaped conductors, you will need a Klauke K22, HK60/22, or EK22 crimping tool with the following crimping dies: R22/95 for 95 mm² R22/120 for 120 mm² R22/150 for 150 mm² R22/185 for 185 mm² R22/240 for 240 mm² R22/300 for 300 mm² Flexible conductors are adequate to a limited extent. They must be indent-crimped with a Klauke series 13 or series 25 crimping die.	-
KS120-NZM7	059776			
KS95-NZM7	059775			
NZM2-XKS185	260032			
NZM2-XAP7	119381	1 set	The replacement device can be positioned identically either with the connection side or the actuation shaft. NZM7 door coupling rotary handle can continue to be used if there is a minimum dimension of 213 mm between the mounting plate and the inside of the door. Otherwise, use new handle NZM2-XTVD…-0 with the new shaft.	UL/CSA certification not required

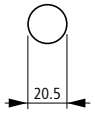
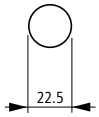
	Max. cable connection area	Number of poles	For use with	Rated current I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
Box terminal									
1230PIC-725 Symbolphoto 		3 pole	NZM3(-4), PN3(-4), N(S)3(-4)	max. 500 400 UL/ CSA	Copper cable Copper cable	1 x 35 - 240 2 x 16 - 120	1 x 2 - 350	min. 6 x 16 x 0.8 max. 10 x 24 x 1.0 oder max. 11 x 21 x 1	-
				630	Copper cable	1 x 35 - 240 2 x 16 - 120	1 x 2 - 350	10 x 24 x 1.0 + 5 x 24 x 1.0 oder (2 x) 8 x 24 x 1.0	-
1230PIC-721 Symbolphoto 		4 pole	NZM3(-4), PN3(-4), N(S)3(-4)	max. 500 400 UL/ CSA	Copper cable Copper cable	1 x 35 - 240 2 x 16 - 120	1 x 2 - 350	min. 6 x 16 x 0.8 max. 10 x 24 x 1.0 oder max. 11 x 21 x 1	-
				630	Copper cable			10 x 24 x 1.0 + 5 x 24 x 1.0 oder (2 x) 8 x 24 x 1.0	
Screw connection Standard									
1230PIC-731 Symbolphoto 		3 pole	NZM3, PN3, N(S)3	630	Copper cable lugs	1 x 16 - 300 2 x 16 - 240	1 x 4 - 350 2 x 350	10 x 32 x 1.0 + 5 x 32 x 130	30 x 10 + 30 x 5
				max. 400	Aluminium cable	1 x 10 - 120 2 x 10 - 120	1 x 4 - 350 2 x 350		
1230PIC-731 Symbolphoto 		4 pole	NZM3-4, PN3-4, N(S)3-4	630	Copper cable lugs	1 x 16 - 300 2 x 16 - 240	1 x 4 - 350 2 x 350	10 x 32 x 1.0 + 5 x 32 x 1.0	30 x 10 + 30 x 5
				max. 400	Aluminium cable lugs	1 x 10 - 120 2 x 10 - 120	1 x 4 - 350 2 x 350		

Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
+NZM3-XKCO	262246	-		1 set	Part no. suffix and part no.contain parts for a circuit breaker side at top or bottom for 3 or 4 pole switches. Conversion kit for circuit breaker with screw terminal. Fitted within the switch housing O = for fitting at the top U = for fitting at the bottom U_e ≧ 525 V AC: Use NZM3(-4)-XKSA cover. Use ferrules with flexible and highly flexible conductors. Observe limited cable cross-section through sleeve.	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
+NZM3-XKCU	262245	-				
-		NZM3-XKC	260042			
+NZM3-4-XKCU	266782	-		1 set		-
+NZM3-4-XKCO	266781	NZM3-4-XKC	266783			
-		NZM3-XKS	260039	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Standard connection with all NZM3, PN3 and N3 circuit breakers. Conversion kit for circuit breaker with box terminal. Use special cable lugs narrow version, → 059775 Fitted within the switch housing. If a bar is used, insulation (400 mm) heat-shrink tubing and a cover NZM3(-4)-XKSA are required. U_e ≧ 525 V AC: For all other connection types use cover NZM3(-4)-XKSA.	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
-		NZM3-4-XKS	266780	1 set		-

Terminals
NZM3

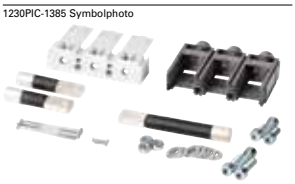
	Max. cable connection area	Number of poles	For use with	Rated current I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
Connection width extension One hole, for screws or terminals									
1230PIC-773 Symbolphoto 		3 pole	NZM3, PN3, N(S)3	630	Copper cable lugs	2 x 300	2 x 500	2 x 10 x 50 x 1.0	(2 x) 10 x 50
1230PIC-772 Symbolphoto 		4 pole	NZM3-4, PN3-4, N3-4	630	Copper cable lugs	2 x 300	2 x 500	2 x 10 x 50 x 1.0	(2 x) 10 x 50
1230PIC-774 Symbolphoto 		3 pole	NZM3, PN3, N(S)3	630	Copper cable lugs	NZM3-XKV70-2: 4 x 35 - 185 NZM3-XKV70-2 + NZM4-XKA: 4 x 50 - 240	NZM3-XKV70-2: 2 x 350 NZM3-XKV70-2 + NZM4-XKA: 4 x 500	NZM3-XKV70-2 + NZM4-XKB: ≧ 6 x 16 - 0.8 ≦ (2 x) 10 x 32 x 1	(2 x) 10 x 50
1230PIC-774 Symbolphoto 		4 pole	NZM3-4, PN3-4, N(S)3-4	630	Copper cable lugs	2 x 300	2 x 500	(2 x) 10 x 50 x 1.0	(2 x) 10 x 50
1230PIC-775 Symbolphoto 		3 pole	NZM3, PN3, N(S)3	630	Copper cable lugs	2 x 95 -300	2 x 500	(2x) 10 x 32 x 1.0	(2 x) 10 x 40

Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America	
-		NZM3-XKV70	100514	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Central drilling for e.g. up to 2 cable lugs per phase. For fitting to switches with screw terminal. Phase isolator and insulation plate are included as standard. Distance between pole centres with NZM3(-4)-XKV70: 70 mm. Hole for control wire exists. Connection terminals NZM3(-4)-XK300 and NZM3(-4)-XK22X21 can be installed	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E140305 DIHS 022086 1432-01 UL Listed, CSA certified
-		NZM3-4-XKV70	100515	1 set		-	
-		NZM3-XKV70-2	119860	1 set	Contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Double hole fitting for up to four 185 mm² cable lugs, 50 mm bar or large flat cable terminal NZM4-XKB or large tunnel terminal NZM4-XKA. For fitting to switches with screw terminal. Phase isolator, insulation plate and 2 control circuit terminals supplied.	Product Standards NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking Request filed for UL and CSA Refer to main component information
-		NZM3-4-XKV70-2	132673	1 set	Contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Double hole fitting for up to four 185 mm² cable lugs, 50 mm bar or large flat cable terminal NZM4-XKB or large tunnel terminal NZM4-XKA. For fitting to switches with screw terminal. Phase isolator, insulation plate and 2 control circuit terminals supplied.	-	
-		NZM3-XKV70KB	112884	1 set	Contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Threaded stud for cable lugs up to 2 × 300mm². For fitting to switches with screw terminal. Phase isolator, insulation plate and 2 control circuit terminals supplied	Product Standards NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking Request filed for UL and CSA Refer to main component information

	Max. cable connection area	Number of poles	For use with	Rated current I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
Terminals for connection width extension									
1230PIC-1432 Symbolphoto 		3 pole	NZM3, PN3, N(S)3	max. 500	Copper cable	1 x 120 - 300	-	-	-
1230PIC-868 Symbolphoto 		4 pole	NZM3-4, PN3-4, N3-4	max. 500	Copper cable	1 x 120 - 300	-	-	-
1230PIC-1431 Symbolphoto 		3 pole	NZM3, PN3, N(S)3	630	-	-	-	(2 ×) 11 x 21 x 1.0	-
1230PIC-867 Symbolphoto 		4 pole	NZM3-4, PN3-4, N3-4	630	-	-	-	(2 ×) 11 x 21 x 1.0	-
Tunnel terminal									
1230PIC-683 Symbolphoto 		3 pole	NZM3, PN3, N(S)3	max. 350	Copper cable ⏦ ⏧ Aluminium cable ⏦ ⏧	1 x 16 - 185	1 x 6 - 350	-	-
1230PIC-683 Symbolphoto 		4 pole	NZM3-4, PN3-4, N3-4	max. 350	Copper cable ⏦ ⏧ Aluminium cable ⏦ ⏧	1 x 16 - 185	1 x 6 - 350	-	-
1230PIC-1433 Symbolphoto 		3 pole	NZM3, PN3, N(S)3	max. 630	Copper cable ⏦ ⏧ Aluminium cable ⏦ ⏧	1 x 50 - 240 2 x 50 - 240	1 x 0 - 500 2 x 0 - 500	-	-
1230PIC-771 Symbolphoto 		4 pole	NZM3-4, PN3-4, N3-4	max. 630	Copper cable ⏦ ⏧ Aluminium cable ⏦ ⏧	1 x 50 - 240 2 x 50 - 240	1 x 0 - 500 2 x 0 - 500	-	-

Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
-		NZM3-XK300	100782	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Only in combination with connection width extension NZM3(-4)-XKV70. Use ferrules with flexible and highly flexible conductors. With control cable terminal for 1 x 0.75 - 2.5 mm² or 2 x 0.75 - 1.5 mm² copper conductor.	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1432-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
-		NZM3-4-XK300	100783	1 set		-
-		NZM3-XK22X21	100784	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Only in combination with connection width extension NZM3(-4)-XKV70. Use ferrules with flexible and highly flexible conductors. With control cable terminal for 1 x 0.75 - 2.5 mm² or 2 x 0.75 - 1.5 mm² copper conductor.	Not UL/CSA approved
-		NZM3-4-XK22X21	100785	1 set		Not UL/CSA approved
-		NZM3-XKA1	271459	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. With control cable terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 16 AWG) copper conductor.	-
-		NZM3-4-XKA1	271460	1 set	Fitting outside switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules. Cover NZM3(-4)-XKSA must be fitted (included as standard).	-
-		NZM3-XKA2	271461	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. With control cable terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 16 AWG) copper conductor. Fitting outside switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules. Cover NZM3(-4)-XKSA must be fitted (included as standard).	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1432-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
-		NZM3-4-XKA2	271462	1 set		-

Terminals
NZM3

	Max. cable connection area	Number of poles	For use with	Rated current I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
					Rear terminal bolts				
1230PIC-1385 Symbolphoto 	-	3 pole	NZM3, PN3, N3	max. 630 max. 500	Copper cable lugs Aluminium cable lugs	1 x 16 - 240 2 x 16 - 240 1 x 10 - 120 2 x 10 - 120	-	min. 6 x 16 x 0.8 max. 10 x 32 x 1.0	min. 20 x 5 max. 30 – 10
1230PIC-1380 Symbolphoto 	-	4 pole	NZM3-4, PN3-4, N3-4	max. 630 max. 500	Copper cable lugs Aluminium cable lugs	1 x 16 - 240 2 x 16 - 240 1 x 10 - 120 2 x 10 - 120	-	min. 6 x 16 x 0.8 max. 10 x 32 x 1.0	min. 20 x 5 max. 30 – 10
					Control cable terminals				
1230PIC-729 Symbolphoto 	-	3 and 4 pole	NZM3, PN3, N(S)3	-	Screw terminals	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-	-
1230PIC-747 Symbolphoto 	-	3 and 4 pole	NZM3-4, PN3, N(S)3-4	-	Box terminal	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-	-

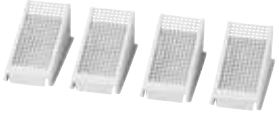
Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
+NZM3-XKRO	266790	NZM3-XKR	266792	1 set	Part no. suffix and part no.contain parts for a circuit breaker side at top or bottom for 3 or 4 pole switches. O = for fitting at the top U = for fitting at the bottom	Not UL/CSA approved
+NZM3-XKRU	266791	-				
+NZM3-4-XKRO	266793	NZM3-4-XKR	266795	1 set		Not UL/CSA approved
+NZM3-4-XKRU	266794	-				
-		NZM3/4-XSTS	266797	1 set	Contains for two terminal locations located at top or bottom for 3 or 4 pole circuit breakers. Included as standard with tunnel terminal. Degree of protection IP1X Height or thickness of connections NZM-XSTS = 2 mm	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E140305 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
-		NZM-XSTK	266739	1 set	Contains for two terminal locations located at top or bottom for 3 or 4 pole circuitb-reakers Included as standard with tunnel terminal. Degree of protection IP1X NZM-XSTK cannot be combined with NZM1(-4)-XIPK IP2X protection against contact with finger. Height or thickness of connections: NZM-XSTK = 2 mm NZM-XSTS = 2 mm	

	Max. cable connection area	Number of poles	For use with	Part no. Article no. when ordering separately	Article no.
Cable lug cover					
1230PIC-694 Symbolphoto 	-	3 pole	NZM3, PN3, N(S)3	NZM3-XKSAE	119869
1230PIC-688 Symbolphoto 	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XKSAE	119871
Cover					
1230PIC-1352 Symbolphoto 	-	3 pole	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XKSA	260045
1230PIC-1353 Symbolphoto 	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XKSA	266801
Phase isolators					
sg08715 Symbolphoto 	-	3 pole	NZM3-4, PN3-4, N(S)3-4	NZM3-XKP	100512
sg08815 Symbolphoto 	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XKP	100513

Std. pack	Notes	Information relevant for export to North America
1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Contact protection where cable lugs are used on screw terminals. When using insulated conductor material, degree of protection IP2X.	UL/CSA certification not required
1 set		-

Std. pack	Notes	Information relevant for export to North America
1 Off	Contains parts for a terminal located at top or bottom for 3 pole switches. Insulation/protection against direct contact where cable lugs, bars or tunnel terminals are used. Included in set with tunnel terminals. When using insulated conductor material to degree of protection IP1X.	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
1 Off		-

Std. pack	Notes	Information relevant for export to North America
1 set	Contains parts, including insulating plate for mounting plate, for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Included with the connection width extension. Cannot be combined with the NZM3(-4)-XKA tunnel terminal, NZM3(-4)-XKR connection on rear. Insulation protection where cable lugs, bars, or flat conductor are used.	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1432-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
1 set		-

	Max. cable connection area	Number of poles	For use with	Part no. Article no. when ordering separately	Article no.
Terminal covers, knockout					
1230PIC-695 Symbolphoto 	-	3 pole	NZM3-4, PN3-4, N(S)3-4	NZM3-XKSFA	104642
1230PIC-689 Symbolphoto 	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XKSFA	104643
Large cover for connection width extension					
1230PIC-699 Symbolphoto 	-	3 pole	NZM3, PN3, N3 + NZM3-XKV70(-2)	NZM3-XKSAV	119858
1230PIC-696 Symbolphoto 		4 pole	NZM3-4, PN3-4, N3-4 + NZM3-4-XKV70	NZM3-4-XKSAV	132675
IP2X Protection against contact with finger For box terminal					
1230PIC-1384 Symbolphoto 	-	3 pole	NZM3, PN3, N3	NZM3-XIPK	266804
1230PIC-675 Symbolphoto 	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XIPK	266805
For covers NZM3(-4)-XKSA or NZM3…(C)NA and N(S)3…NA					
wa_sg07118 Symbolphoto 	-	3 pole	NZM3, PN3, N(S)3	NZM3-XIPA	266808
1230PIC-1379 Symbolphoto 	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XIPA	266809

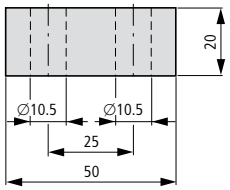
Part no. suffix Article no. for ordering with basic device	Article no.	Std. pack	Notes	Information relevant for export to North America
+NZM3-XKSFAO +NZM3-XKSFAU	108273 108274	1 Off	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Enhanced contact protection (simplified finger protection).	UL/CSA certification not required
+NZM3-4-XKSFAO +NZM3-4-XKSFAU	108275 108276	1 Off		-
-		1 Off	Contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Insulation protection/protection against direct contact for connection of cable lugs or bars to connection width extension. Can also be used for connection width extension NZM3-XKV70 or NZM3-XKV70-2 with terminals NZM3-XK300 or NZM3-XK22x21 or NZM4-XKA. Cannot be combined with connection width NZM3-XKV70KB. When using insulated conductor material, degree of protection IP2X.	-
-		1 Off		-
-		1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Enhanced contact protection to IP2X. Protection when reaching into the cable connection area with the connection of cables in the box terminal. With 2 conductors max. cross section 70mm².	UL/CSA certification not required
-		1 set	Cannot be combined with NZM-XSTK control circuit terminal.	-
-		1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Enhanced contact protection to IP2X. When fitting to NZM3...-(C)NA or N3...-NA: with 2 conductors max. cross section 70 mm².	UL/CSA certification not required
-		1 set		-

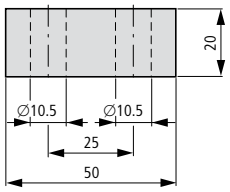
	Max. cable connection area	Number of poles	For use with	Part no. Article no. when ordering separately	Article no.
Copper cable lug					
Not UL/CSA approved					
When using cable lugs without NZM3(-4)-XKSA cover, they must be insulated.					
1230PIC-693 Symbolphoto  185 mm²	-	3 and 4 pole	NZM3(-4), PN3(-4), N3(-4)	NZM3-XKS185	260040
240 mm²				NZM3-XKS240	260041
300 mm²			NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N(-4)	NZM3-XKS300	153186
Mounting adapter plate					
1230PIC-317 Symbolphoto  -	-	3 pole	NZM3 PN3 N3	NZM3-XAP10	119382

Std. pack	Notes	Information relevant for export to North America
		
3 Off	In order to crimp cable lugs when using stranded conductors, e.g., VDE 0295 Class 2 and rounded stranded sector-shaped conductors, you will need a Klauke K22, HK60/22, or EK22 crimping tool with the following crimping dies: • R22/95 for 95 mm² • R22/120 for 120 mm² • R22/150 for 150 mm² • R22/185 for 185 mm² • R22/240 for 240 mm² • R22/300 for 300 mm² Flexible conductors are adequate to a limited extent. They must be indent-crimped with a Klauke series 13 or series 25 crimping die.	-
1 set	The replacement device can be positioned identically either with the connection side or the actuation shaft. The NZM10 door coupling rotary handle can continue to be used if the shaft has a thickness of 12 mm. Otherwise, use new handle NZM3 with the new shaft.	UL/CSA certification not required

Space requirement	Number of poles	For use with	Rated current[1] I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
Screw terminals								
Threaded stud standard equipment								
Screws								
2-hole	3 pole	NZM4, N(S)4	max. 1600	Copper cable-lugs	1 x 120 - 185 4 x 50 - 185	1 x 250 - 350 4 x 0 - 350	(2 x) 10 x 50 x 1.0	(2 x) 50 x 10
2-hole	4 pole	NZM4-4, N4-4	max. 1600	Copper cable-lugs	1 x 120 - 185 4 x 50 - 185	1 x 250 - 350 4 x 0 - 350	(2 x) 10 x 50 x 1.0	(2 x) 50 x 10

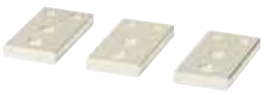
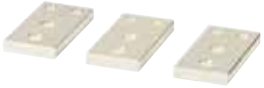
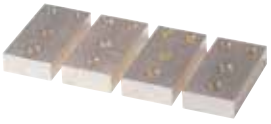
1230PIC-731 Symbolphoto





Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM4-XKS	127736	1 set	Double hole fitting with M10 threaded stud at 25 mm spacing. Use special cable lug narrow version. M10x50 socket cap screw + M10x40 socket cap screw + self locking nut.	UL/CSA certification not required
NZM4-4-XKS	127737	1 set		-

Terminals
NZM4

	Space requirement	Number of poles	For use with	Rated current[1] I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
	Module plate								
1230PIC-744 Symbolphoto 	1-hole	3 pole	NZM4, N(S)4	max. 1250	Copper cable-lugs	1 x 120 - 300 2 x 95 - 300	1 x 250 - 600 2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
1230PIC-742 Symbolphoto 	1-hole	4 pole	NZM4-4, N4-4	max. 1250	Copper cable-lugs	1 x 120 - 300 2 x 95 - 300	1 x 250 - 600 2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
1230PIC-1407 Symbolphoto 	2-hole	3 pole	NZM4, N(S)4	max. 1400	Copper cable-lugs	2 x 95 - 185 4 x 35 - 185	2 x 000 - 350 4 x 2 - 350	(2 x) 10 x 50 x 1.0	(2 x) 10 x 50 x 1.0
1230PIC-870 Symbolphoto 	2-hole	4 pole	NZM4-4, N4-4	max. 1400	Copper cable-lugs	2 x 95 - 185 4 x 35 - 185	2 x 000 - 350 4 x 2 - 350	(2 x) 10 x 50 x 1.0	(2 x) 10 x 50 x 1.0
1230PIC-1408 Symbolphoto 	2-hole	3 pole	NZM4, N(S)4	max. 1250	Copper cable-lugs	2 x 95 - 300	2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
sg08515 Symbolphoto 	2-hole	4 pole	NZM4-4, N4-4	max. 1250	Copper cable-lugs	2 x 95 - 300	2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
1230PIC-1408 Symbolphoto 	2-hole	3 pole	NZM4, N(S)4	max. 1600	Copper cable-lugs	2 x 95 - 300	2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
1230PIC-871 Symbolphoto 	2-hole	4 pole	NZM4-4, N4-4	max. 1600	Copper cable-lugs	2 x 95 - 300	2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10

Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM4-XKM1	266814	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. For M10 screws. Can be enlarged for M12 screws. Use special cable lug narrow version. Can be fitted to circuit breaker with screw terminal. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary.	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 22086 CSA Class No.: 1432-01 NA Certification: UL listed, CSA certified Suitable for: Refer to main component information
NZM4-4-XKM1	266815	1 set		-
NZM4-XKM2	266820	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. For M10 screws. Can be enlarged for M12 screws. Use special cable lug narrow version. Can be fitted to circuit breaker with screw terminal. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary.	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 22086 CSA Class No.: 1432-01 NA Certification: UL listed, CSA certified Suitable for: Refer to main component information
NZM4-4-XKM2	266821	1 set		-
NZM4-XKM2S-1250	284471	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary.	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 22086 CSA Class No.: 1432-01 NA Certification: UL listed, CSA certified Suitable for: Refer to main component information
NZM4-4-XKM2S-1250	284472	1 set		-
NZM4-XKM2S-1600	284473	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary.	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 22086 CSA Class No.: 1432-01 NA Certification: UL listed, CSA certified Suitable for: Refer to main component information
NZM4-4-XKM2S-1600	284474	1 set		-

Terminals
NZM4

Number of poles	For use with	Rated current[1] I_n A	Terminal capacity Cable Cable lugs	Terminal capacity Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
Flat cable terminal							
3 pole	NZM4, N(S)4	max. 1100	-	-	-	min. 6 x 16 x 0.8 max. (2 x) 10 x 32 x 1.0	-
4 pole	NZM4-4, N4-4	max. 1100	-	-	-	min. 6 x 16 x 0.8 max. (2 x) 10 x 32 x 1.0	-
Tunnel terminal							
3 pole	NZM4, N(S)4	max. 1400	Copper cable ☺▽ Aluminium cable ☺▽	1 x 50 - 240 4 x 50 - 240	1 x 0 - 500 4 x 0 - 500	-	-
4 pole	NZM4-4, N4-4	max. 1400	Copper cable ☺▽ Aluminium cable ☺▽	1 x 50 - 240 4 x 50 - 240	1 x 0 - 500 4 x 0 - 500	-	-
Rear terminal bolts							
3 pole	NZM4, N4	max. 1250	Copper cable-lugs Aluminium cable lugs	1 x 120 - 185 2 x 95 - 185 4 x 35 - 185 1 x 185 2 x 70 - 185 4 x 50 - 185	-	(2 x) 10 x 50 x 1.0	(2 x) 50 x 10
4 pole	NZM4(-4), N4(-4)	max. 1250	Copper cable-lugs Aluminium cable lugs	1 x 120 - 185 2 x 95 - 185 4 x 35 - 185 1 x 185 2 x 70 - 185 4 x 50 - 185	-	(2 x) 10 x 50 x 1.0	(2 x) 50 x 10

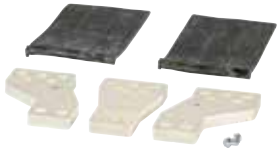
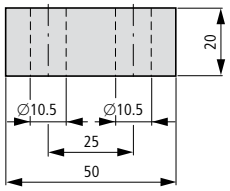
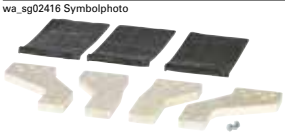
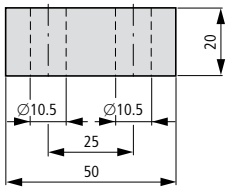
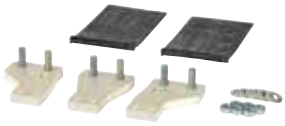
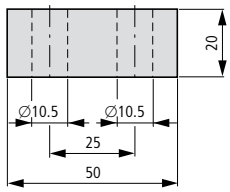
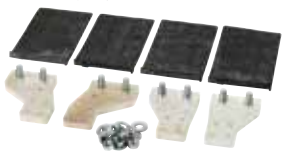
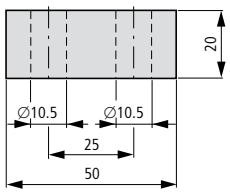
1230PIC-700 Symbolphoto

1230PIC-1438 Symbolphoto

1230PIC-776 Symbolphoto

1230PIC-701 Symbolphoto

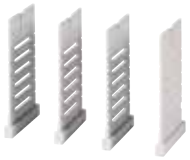
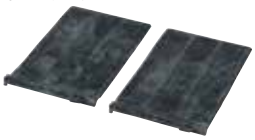
Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM4-XKB	266829	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Conversion kit for circuit breaker with screw terminal. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary. When the circuit breaker is installed on a conductive mounting plate, cover NZM4(-4)-XKSA must be used	Product Standards CSA-C22.2 No. 5-09; IEC60947, CE marking NA Certification Request filed for CSA
NZM4-4-XKB	266831	1 set	With control circuit terminal for 1 x 0.75 - 2.5 mm² or 2x 0.75 - 1.5 mm² copper conductors as standard.	-
NZM4-XKA	266836	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. With control circuit terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 16 AWG) copper cable as standard. Can be fitted to circuit breaker with screw terminal. Use ferrules with flexible and highly flexible conductors. Cover NZM4(-4)-XKSA must be fitted (included as standard).	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E31593 UL CCN DIHS CSA File No. 22086 CSA Class No. 1432-01 NA Certification UL listed, CSA certified Suitable for Refer to main component information
NZM4-4-XKA	266837	1 set		-
NZM4-XKR	266842	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Can also be retrofitted: Module plate NZM4...-XKM... or connection width extension NZM4-...-XKV...	Not UL/CSA approved
NZM4-4-XKR	266843	1 set		Not UL/CSA approved

	Space requirement	Number of poles	For use with	Rated current[1] I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
	Connection width extension								
1230PIC-1412 Symbolphoto 	- 	3 pole	NZM4 N(S)4	max. 1600	Copper cable-lugs	4 x 300 6 x 95 - 240	4 x 600 6 x 000 - 500	max. (2 x) 10 x 80 x 1.0	max. (2 x) 80 x 10
wa_sg02416 Symbolphoto 	- 	4 pole	NZM4-4, N4-4	max. 1600	Copper cable-lugs	4 x 300 6 x 95 - 240	4 x 600 6 x 000 - 500	max. (2 x) 10 x 80 x 1.0	max. (2 x) 80 x 10
	With two threaded studs								
1230PIC-1411 Symbolphoto 	- 	3 pole	NZM4, N(S)4	1600	Copper cable-lugs	4 x 95 - 300	4 x 500	(2 x) 10 x 80 x 1.0	(2 x) 10 x 80
1230PIC-1147 Symbolphoto 	- 	4 pole	NZM4-4, N4-4	1600	Copper cable-lugs	4 x 95 - 300	4 x - 500	(2x) 10 x 80 x 1.0	(2 x) 10 x 80

Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM4-XKV95	281591	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches Five-hole fitting, for example, for up to nine cable lugs per phase. Can be fitted to circuit breaker with screw terminal. Phase isolator included as standard. Distance between pole centers: 95 mm Installation conditions for current transformer up to 130 mm width with 80 mm busbar width. 4 mm holes predrilled for control circuit terminal. Contains hole for large cover NZM4(-4)-XKSAV	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL listed, CSA certified Suitable for: Refer to main component information
NZM4-XKV110	281593			
NZM4-4-XKV95	281592	1 set		-
NZM4-4-XKV120	281594			
NZM4-XKV95-2KB	119861	1 set	Type contains parts for 3 to 4-pole switches on top or bottom of switch. Double stud bolts M12 for e. g. up to 4 cable lugs 300 mm² per phase. For fitting to switches with screw connection. Distance between pole centers if 95 mm Can be fitted to current transformers up to 130 mm in width and with a bar width of 80 mm. 4 mm drilling dimensions for control circuit terminal available. Hole for large cover NZM4(-4)-XKSAV included	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL listed, CSA certified Suitable for: Refer to main component information
NZM4-4-XKV95-2KB	132674	1 set		-

	Number of poles	For use with	Terminal capacity Connection	Terminal capacity mm²	AWG/kcmil
	Cover				
1230PIC-1354 Symbolphoto 	3 pole	NZM4, N(S)4	-	-	-
1230PIC-1355 Symbolphoto 	4 pole	NZM4-4 N4-4	-		
	Cover size				
	For connection width extension				
1230PIC-699 Symbolphoto 	3 pole	NZM4, N(S)4 + NZM4-XKV95(KB)	-	-	-
1230PIC-696 Symbolphoto 	4 pole	NZM4-4, N(S)4-4 + NZM4-4-XKV95(KB)	-	-	-
	Insulation plate				
1230PIC-315 Symbolphoto 	3 pole	NZM4, - N(S)4 + NZM4-XKV...	-	-	-
	4 pole	NZM4-4 N4-4 + NZM4-4-XKV...	-	-	-

Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM4-XKSA	266846	1 set	Type contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Insulation/protection against direct contact where cable lugs or busbars are connected or tunnel terminals are used. Included in the set with tunnel terminals. When using insulated conductor material to IP1X.	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1432-01 NA Certification UL listed, CSA certified Suitable for UL listed, CSA certified
NZM4-4-XKSA	266847	1 set		-
NZM4-XKSAV	119876	1 set	Type contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Insulation protection/busbar tag shroud for connection of cable lugs or busbars to connection width extension. When using insulated conductor material to IP2X. Cannot be combined with connection width extension NZM4-XKV110.	UL/CSA certification not required
NZM4-4-XKSAV	132676	1 set	Type contains parts for a terminal located at top or bottom for 4 pole circuit breakers. Insulation protection / busbar tag shroud for connection of cable lugs or busbars to connection width extension. Cannot be combined with connection width extension NZM4-4-XKV120. When using insulated conductor material to IP2X.	-
NZM4-XISP	119866	1 set	Type contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Insulation protection to mounting plate when minimum clearances are not maintained. Included with the connection width extension.	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking NA Certification Request filed for UL and CSA Suitable for Refer to main component information
NZM4-4-XISP	119867	1 set		-

	Number of poles	For use with	Terminal capacity		
			Connection	Terminal capacity mm²	AWG/kcmil
	Terminal covers, knockout				
1230PIC-745 Symbolphoto 	3 pole	NZM4, N(S)4	-	-	-
wa_sg07218 Symbolphoto 	4 pole	NZM4-4, N4-4	-	-	-
	Phase isolators				
sg09215 Symbolphoto 	3 pole	NZM4, N(S)4	-	-	-
sg08815 Symbolphoto 	4 pole	NZM4-4, N4-4	-	-	-

Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM4-XKSFA	292193	1 set	Part no. includes parts for a top or bottom terminal for 3 pole circuit breakers, including in combination with NZM4-XKSA cover. Increased busbar tag shroud with connection of insulated bars or flat band.	UL/CSA certification not required
NZM4-4-XKSFA	292194	1 set		-
NZM4-XKP	281595	1 set	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit breakers. Included with the connection width extension. Cannot be combined with the tunnel terminal NZM4(-4)-XKA, connection NZM4-XKR on rear. Insulation protection where cable lugs, busbars, module plates or flat cable terminals are used.	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL listed, CSA certified Suitable for: Refer to main component information
NZM4-4-XKP	281596	1 set		-

Terminals
NZM4

	For use with	Rated current I_n A	Number of poles	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
	Adapter set N(ZM)4/N(ZM)12						
	Not UL/CSA approved						
1230PIC-778 Symbolphoto 	N4	max. 1000	3 pole	N4-XAS12-1000	285609	1 set	Conversion kit from N(ZM)12 to N(ZM)4. With the terminal lugs of the replacement kit all three-pole NZM12 and N12 can be adapted to the connection dimensions of the NZM4 or N4 supplied from model year 1983. 4 pole basic devices, withdrawable units and basic devices with remote operator can not be replaced. Contents of replacement kits N(ZM)4-XAS12…: 3 connection extensions on outlet side 3 connection extensions on trip block side 2 mounting brackets 4 fixing screws 4 phase isolators 6 fixing screws, nuts and washers Paper drilling template in the instructional leaflet (AWA) The replacement kits have the same dimensions as models N(ZM)12…, which correspond to production status 02/97 to the present.
1230PIC-779 Symbolphoto 	N4	max. 1250	3 pole	N4-XAS12-1250	285610		
1230PIC-780 Symbolphoto 	N4	max. 1600	3 pole	N4-XAS12-1600	285611		
1230PIC-778 Symbolphoto 	NZM4	max. 1000	3 pole	NZM4-XAS12-1000	285612	1 set	Special feature: Prior to 02/97 the N(ZM)12-800 was supplied with 10 mm instead of 8 mm terminal lugs. With these models the customer must determine the device's year of manufacture by measuring the thickness of the terminal lug and order replacement kit N(ZM)4-XAS12-1250. Example: N(ZM)12-800…(1000) > N(ZM)4-XAS12-1000 N(ZM)12-800 before 02/97 > N(ZM)4-XAS12-1250 N(ZM)12-1250 > N(ZM)4-XAS12-1250 N(ZM)12-1600 > N(ZM)4-XAS12-1600 Addition for devices constructed prior to 1983! Here the replacement kit for switch-disconnectors can be used in full. For circuit-breakers with "long" ZM design, the adapter fit only at the top! At the bottom the devices are about 65 mm longer and the lower connection is about 26 mm deeper. Consequently the bottom adapters are too short and the heights do not correspond.
1230PIC-779 Symbolphoto 	NZM4	max. 1250	3 pole	NZM4-XAS12-1250	285613		
1230PIC-780 Symbolphoto 	NZM4	max. 1600	3 pole	NZM4-XAS12-1600	285614		
1230PIC-781 Symbolphoto 	NZM4, N4	max. 1250	3 pole	NZM4-XAS14-1250	283291	1 set	Conversion kit for NZM14 to NZM4. Same connections as NZM14. Contains for both sides of switch. 3 connection extensions on outlet side 3 connection extensions on trip block side. 1 long shroud for the outlet side Paper drilling template in the instructional leaflet (AWA) Cannot be combined with the module plate (NZM4-XKM...), flat cable terminal (NZM4-XKB), connection width extension (NZM4-XKV...), tunnel terminal (NZM4-XKA), connection on rear (NZM4-XKR) and withdrawable unit (NZM4-XAV...)
1230PIC-847 Symbolphoto 	NZM4, N4	1600	3 pole	NZM4-XAS14-1600	283292		

Plug-in units

For circuit breakers NZM and switch disconnectors N
Not UL/CSA approved
Not for U_e > 690 V

	For use with	Number of poles	Part no.	Article no.	Std. pack	Notes
Plug-in socket						
 1230PIC-818 Symbolphoto	Completion through switches with plug-in insert NZM...-SVE...	NZM1 N1	3 pole	NZM1-XSVS	109777	1 Off	Mounting position: vertical, 90° right, 90° left Order control circuit plug unit separately!
 1230PIC-818 Symbolphoto		NZM2 N2	3 pole	NZM2-XSVS	266699	1 Off	
 1230PIC-815 Symbolphoto		NZM2-4 N2-4	4 pole	NZM2-4-XSVS	266700	1 Off	
 1230PIC-818 Symbolphoto		NZM3 N3	3 pole	NZM3-XSVS	168472		Mounting position: vertical, 90° right, 90° left Order control circuit plug unit separately! Lockable base
 1230PIC-815 Symbolphoto		NZM3-4 N3-4	4 pole	NZM3-4-XSVS	168473		
Control circuit plug unit						
 1230PIC-770 Symbolphoto	-	NZM1, N1 NZM2(-4) N2(-4)	For auxiliary contact, shunt/ overvoltage release	NZM2-XSVHI	266705	1 Off	10 terminals
 1230PIC-845 Symbolphoto	-	NZM2(-4) N2(-4)	For remote operator	NZM2-XSVR	266706	1 Off	

For use with	Number of poles	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Withdrawable unit					
For circuit breakers NZM and switch disconnectors N Not UL/CSA approved Not for U_e > 690 V					
Socket base					
For switches with withdrawable carrier. Also for reserved compartments.					
 1230PIC-697 Symbolphoto					
NZM3 N3	3 pole	NZM3-XAVS	266711	1 Off	$I_{nmax.}$ at: 20°C: 605 A (NZM3), 1600 A (NZM4) 40°C: 550 A (NZM3), 1500 A (NZM4) Mounting position: NZM3: vertical, 90° left NZM4: vertical 3 positions: Connected, test, disconnected Position indication is mechanical with pointers. Additional electrical indication with auxiliary contacts possible. One N/O or NC contact M22-(C)K01 or M22-(C)K10 each per position. Alternatively also double contacts M22-CK... Complete with control circuit plug unit. All auxiliary contact (HIA, HIN, HIV) and shunt release connections to the control circuit plug unit are already present. Maximum configuration: 3 contacts HIN, 2 contacts HIA, 2 contacts HIV Cannot be combined with adapter set NZM4/NZM14 (NZM4-XSAS14-…) or N(ZM)4/N(ZM)12.
 1230PIC-866 Symbolphoto					
NZM3-4 N3-4	4 pole	NZM3-4-XAVS	266712	1 Off	
 1230PIC-697 Symbolphoto					
NZM4 N4	3 pole	NZM4-XAVS	266713	1 Off	
 1230PIC-866 Symbolphoto					
NZM4-4 N4-4	4 pole	NZM4-4-XAVS	266714	1 Off	
Withdrawable carrier					
Suitable for socket base Only in combination with switch					
 1230PIC-1178 Symbolphoto					
NZM4-4 N4-4	3 pole	NZM4-4-XAVE	266717	1 Off	
NZM4-4 N4-4	4 pole	NZM4-4-XAVE	266718	1 Off	

	For use with	Contact configuration: ⊖ = safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact	NC = normally closed contact	Contact sequences	Part no. Article no. when ordering separately	Article no.	Std. pack
Auxiliary contacts							
Standard auxiliary contacts (HIN) Switches with the main contacts. Used for indicating and interlocking tasks.							
1160PIC-1199 	Single contact with screw terminal	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	1 N/O			M22-K10	216376	20 Off
				1 NC		M22-K01	216378	
1160PIC-1382 	Single contact with spring-cage terminal	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	1 N/O			M22-CK10	216384	
				1 NC		M22-CK01	216385	
1160PIC-684 	Double contact with spring cage terminal	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	2 N/O	1 NC		M22-CK11	107940	
				2 NC		M22-CK02	107899	
			2 N/O			M22-CK20	107898	

Notes

The following can be clipped into the switch:
- NZM1: One standard auxiliary contact
- NZM2: Up to 2 standard auxiliary contacts M22-(C)K...
- NZM3: Up to 3 standard auxiliary contacts M22-(C)K...
- NZM4: Up to 3 standard auxiliary contacts M22-(C)K...

Any combinations of the auxiliary contact types are possible.
Marking on switch: HIN
On combination with remote operator NZM-XR... the right mounting location of standard auxiliary contact HIN can be fitted only with individual contacts.

Information relevant for export to North America

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified

Compact circuit breakers, switch disconnectors

Auxiliary contacts with screw terminals/spring-cage terminals M22-...

	For use with	Contact configuration: ⊖ = safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact	NC = normally closed contact	Contact sequences	Part no. Article no. when ordering separately	Article no.	Std. pack
Auxiliary contacts							
Trip-indicating auxiliary contact (HIA), (HIAFI)[1]							
General trip-indication "+", when tripped by shunt release, overload release, short-circuit release or earth-fault release due to fault current.							
1160PIC-1199  Single contact with screw terminal	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	1 N/O			M22-K10	216376	20 Off
			1 NC		M22-K01	216378	
1160PIC-1382  Single contact with spring-cage terminal	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	1 N/O			M22-CK10	216384	
			1 NC		M22-CK01	216385	
1160PIC-684  Double contact with spring-cage terminal	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	2 N/O	1 NC		M22-CK11	107940	
			2 NC		M22-CK02	107899	
		2 N/O			M22-CK20	107898	

Notes

Information relevant for export to North America

The following can be clipped into the switch:
- NZM1: One trip-indicating auxiliary switch
- NZM2: One trip-indicating auxiliary switch M22-(C)K...
- NZM3: One trip-indicating auxiliary switch M22-(C)K...
- NZM4: Up to 2 trip-indicating auxiliary switches M22-(C)K...

Any combinations of the auxiliary contact types are possible.
Not in combination with switch-disconnector PN...
Marking on switch: HIA.
Labeling in residual current-block: HIAFI.
If the trip-indicating auxiliary contacts are used in the residual current-block, the NC contacts operate as N/O contacts and the N/O contact operates as an NC contact.

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified

		For use with	Contact configuration: ⊖ = safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact	NC = normally closed contact	Contact sequences	Part no. Article no. when ordering separately	Article no.	Std. pack
	Auxiliary contacts							
	Early-make auxiliary contact For interlocking and load shedding circuits, as well as for early make of the undervoltage release in main switch/emergency switching off applications							
1230PIC-763 Symbolphoto 	With clamp terminal on left switch side	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	2 N/O	-		NZM1-XHIV	259426	1 Off
1230PIC-765 Symbolphoto 	With clamp terminal on right switch side.		2 N/O	-		NZM1-XHIVR	292195	
1230PIC-764 Symbolphoto 	With 3 m connection cable instead of screw connection.		2 N/O	-		NZM1-XHIVL	259432	
	Notes				Information relevant for export to North America			
	Not in conjunction with undervoltage release NZM…-XU… or shunt release NZM…-XA… Early make with switch on and switch off (manual actuation): approx. 20 ms				Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking E140305 DIHS 022086 1437-01 UL Listed, CSA certified		
1230PIC-767 Symbolphoto 	-	NZM2(-4), 3(-4) PN2(-4), 3(-4) N(S)2(-4), 3(-4)	2 N/O	-		NZM2/3-XHIV	259430[1]	
			1 N/O			NZM2/3-XHIV-PI	189748[1]	
1230PIC-782 Symbolphoto 	-	NZM4(-4) N(S)4(-4)	2 N/O	-		NZM4-XHIV	266172[2]	
			1 N/O			NZM4-XHIV-PI	189749[2]	
	Notes				Information relevant for export to North America			
	[1] Not in conjunction with undervoltage release NZM…-XU…, shunt releases NZM…-XA… Early make with switch on and switch off (manual actuation): approx. 20 ms [2] Not in conjunction with undervoltage release NZM…-XU…, shunt releases NZM…-XA… or remote operator NZM…-XR… Early make (manual operation): approx: ca. 90 ms				Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking E140305 DIHS 022086 1437-01 UL Listed, CSA certified		

Undervoltage releases

Without auxiliary contacts

Non-delayed disconnection of circuit breaker NZM or switch disconnector N when control voltage drops below 35 – 70 % U_S.
For use with emergency switching off devices in conjunction with emergency switching off button.

	For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
1230PIC-1127 Symbolphoto  With clamp terminal on left switch side.	NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XU24AC	259434	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA...
		48 V 50/60 Hz	NZM1-XU48AC	259436		
		60 V 50/60 Hz	NZM1-XU60AC	259438		
		110 V - 130 V 50/60 Hz	NZM1-XU110-130AC	259440		
		208 V - 240 V 50/60 Hz	NZM1-XU208-240AC	259442		
		380 V - 440 V 50/60 Hz	NZM1-XU380-440AC	259444		
		480 V - 525 V 50/60 Hz	NZM1-XU480-525AC	259446		
		600 V 50/60 Hz	NZM1-XU600AC	259448		
		12 V DC	NZM1-XU12DC	259450		
		18 V DC	NZM1-XU18DC	171798		
		24 V DC	NZM1-XU24DC	259452		
		48 V DC	NZM1-XU48DC	262631		
		60 V DC	NZM1-XU60DC	259454		
		110 V - 130 V DC	NZM1-XU110-130DC	259458		
		220 V - 250 V DC	NZM1-XU220-250DC	259460		
1230PIC-1131 Symbolphoto  With 3 m connection cable instead of screw terminal.	NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUL24AC	259462	1 Off	
		110 V - 130 V 50/60 Hz	NZM1-XUL110-130AC	259468		
		208 V - 240 V 50/60 Hz	NZM1-XUL208-240AC	259471		
		380 V - 440 V 50/60 Hz	NZM1-XUL380-440AC	259473		
		480 V - 525 V 50/60 Hz	NZM1-XUL480-525AC	259475		
		600 V 50/60 Hz	NZM1-XUL600AC	259477		
		12 V DC	NZM1-XUL12DC	259479		
		18 V DC	NZM1-XUL18DC	171799		
		24 V DC	NZM1-XUL24DC	259481		
		110 V - 130 V DC	NZM1-XUL110-130DC	259487		
		220 V - 250 V DC	NZM1-XUL220-250DC	259489		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Undervoltage releases

Without auxiliary contacts

Non-delayed disconnection of circuit breaker NZM or switch disconnector N when control voltage drops below 35 – 70 % U_S.
For use with emergency switching off devices in conjunction with emergency switching off button

1230PIC-1133 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V 50/60 Hz	NZM2/3-XU24AC	259491	1 Off	When the undervoltage release is de-energized, accidental contact with the main switches of the switch during attempts to switch on is reliably prevented. Undervoltage release cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or undervoltage release NZM...-XA...
	48 V 50/60 Hz	NZM2/3-XU48AC	259493		
	60 V 50/60 Hz	NZM2/3-XU60AC	259495		
	110 V - 130 V 50/60 Hz	NZM2/3-XU110-130AC	259497		
	208 V - 240 V 50/60 Hz	NZM2/3-XU208-240AC	259499		
	380 V - 440 V 50/60 Hz	NZM2/3-XU380-440AC	259501		
	480 V - 525 V 50/60 Hz	NZM2/3-XU480-525AC	259503		
	600 V 50/60 Hz	NZM2/3-XU600AC	259505		
	12 V DC	NZM2/3-XU12DC	259507		
	18 V DC	NZM2/3-XU18DC	171802		
	24 V DC	NZM2/3-XU24DC	259509		
	48 V DC	NZM2/3-XU48DC	259511		
	60 V DC	NZM2/3-XU60DC	259513		
	110 V - 130 V DC	NZM2/3-XU110-130DC	259515		
	220 V - 250 V DC	NZM2/3-XU220-250DC	259517		

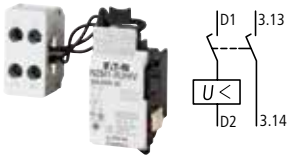
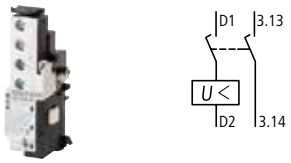
1230PIC-1148 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM4(-4), N(S)4(-4)	24 V 50/60 Hz	NZM4-XU24AC	266189	1 Off	
	48 V 50/60 Hz	NZM4-XU48AC	266190		
	60 V 50/60 Hz	NZM4-XU60AC	266191		
	110 V - 130 V 50/60 Hz	NZM4-XU110-130AC	266192		
	208 V - 240 V 50/60 Hz	NZM4-XU208-240AC	266193		
	380 V - 440 V 50/60 Hz	NZM4-XU380-440AC	266194		
	480 V - 525 V 50/60 Hz	NZM4-XU480-525AC	266195		
	600 V 50/60 Hz	NZM4-XU600AC	266196		
	12 V DC	NZM4-XU12DC	266203		
	18 V DC	NZM4-XU18DC	171804		
	24 V DC	NZM4-XU24DC	266204		
	48 V DC	NZM4-XU48DC	266205		
	60 V DC	NZM4-XU60DC	266206		
	110 V - 130 V DC	NZM4-XU110-130DC	266207		
	220 V - 250 V DC	NZM4-XU220-250DC	266208		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Undervoltage releases
NZM1, NZM2/3

	For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Undervoltage releases						
With two early-make auxiliary contacts For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications. For use with emergency switching off devices in conjunction with emergency switching off button.						
1230PIC-1128 Symbolphoto 	With clamp terminal on left switch side.	NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIV24AC	259531	1 Off
			48 V 50/60 Hz	NZM1-XUHIV48AC	259533	
			60 V 50/60 Hz	NZM1-XUHIV60AC	259535	
			110 V - 130 V 50/60 Hz	NZM1-XUHIV110-130AC	259537	
			208 V - 240 V 50/60 Hz	NZM1-XUHIV208-240AC	259539	
			380 V - 440 V 50/60 Hz	NZM1-XUHIV380-440AC	259541	
			480 V - 525 V 50/60 Hz	NZM1-XUHIV480-525AC	259543	
			12 V DC	NZM1-XUHIV12DC	259545	
			18 V DC	NZM1-XUHIV18DC	171800	
			24 V DC	NZM1-XUHIV24DC	259547	
			48 V DC	NZM1-XUHIV48DC	259549	
			60 V DC	NZM1-XUHIV60DC	259551	
			110 V - 130 V DC	NZM1-XUHIV110-130DC	259553	
			220 V - 250 V DC	NZM1-XUHIV220-250DC	259555	
						When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA... .
1230PIC-1306 Symbolphoto 	With 3 m connection cable instead of screw connection.	NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIVL24AC	259557	1 Off
			110 V - 130 V 50/60 Hz	NZM1-XUHIVL110-130AC	259563	
			208 V - 240 V 50/60 Hz	NZM1-XUHIVL208-240AC	259565	
			380 V - 440 V 50/60 Hz	NZM1-XUHIVL380-440AC	259567	
			480 V - 525 V 50/60 Hz	NZM1-XUHIVL480-525AC	259569	
			12 V DC	NZM1-XUHIVL12DC	259571	
			18 V DC	NZM1-XUHIVL18DC	171801	
			24 V DC	NZM1-XUHIVL24DC	259573	
			110 V - 130 V DC	NZM1-XUHIVL110-130DC	259579	
			220 V - 250 V DC	NZM1-XUHIVL220-250DC	259581	
1230PIC-1134 Symbolphoto 	-	NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V 50/60 Hz	NZM2/3-XUHIV24AC	259583	1 Off
			48 V 50/60 Hz	NZM2/3-XUHIV48AC	259585	
			60 V 50/60 Hz	NZM2/3-XUHIV60AC	259587	
			110 V - 130 V 50/60 Hz	NZM2/3-XUHIV110-130AC	259589	
			208 V - 240 V 50/60 Hz	NZM2/3-XUHIV208-240AC	259591	
			380 V - 440 V 50/60 Hz	NZM2/3-XUHIV380-440AC	259594	
			480 V - 525 V 50/60 Hz	NZM2/3-XUHIV480-525AC	259598	
			12 V DC	NZM2/3-XUHIV12DC	259600	
			18 V DC	NZM2/3-XUHIV18DC	171803	
			24 V DC	NZM2/3-XUHIV24DC	259602	
			48 V DC	NZM2/3-XUHIV48DC	259604	
			60 V DC	NZM2/3-XUHIV60DC	259606	
			110 V - 130 V DC	NZM2/3-XUHIV110-130DC	259608	
			220 V - 250 V DC	NZM2/3-XUHIV220-250DC	259610	
						When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Cannot be used in conjunction with remote operator NZM...-XR.... Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA....

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

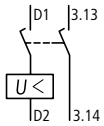
For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Undervoltage releases

With two early-make auxiliary contacts

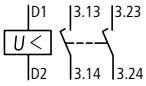
For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.
For use with emergency switching off devices in conjunction with emergency switching off button.

1230PIC-1149 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM4(-4), N(S)4(-4)	24 V 50/60 Hz	NZM4-XUHIV24AC	266217	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early make of auxiliary contacts on switching on (manual operation): approx. 90 ms Cannot be used in conjunction with remote operator NZM...-XR.... Undervoltage release cannot be installed together with early-make auxiliary contact NZM…-XHIV… or shunt release NZM…-XA…
	48 V 50/60 Hz	NZM4-XUHIV48AC	266218		
	60 V 50/60 Hz	NZM4-XUHIV60AC	266219		
	110 V - 130 V 50/60 Hz	NZM4-XUHIV110-130AC	266220		
	208 V - 240 V 50/60 Hz	NZM4-XUHIV208-240AC	266221		
	380 V - 440 V 50/60 Hz	NZM4-XUHIV380-440AC	266222		
	480 V - 525 V 50/60 Hz	NZM4-XUHIV480-525AC	266223		
	12 V DC	NZM4-XUHIV12DC	266231		
	18 V DC	NZM4-XUHIV18DC	171805		
	24 V DC	NZM4-XUHIV24DC	266232		
	48 V DC	NZM4-XUHIV48DC	266233		
	60 V DC	NZM4-XUHIV60DC	266234		
	110 V - 130 V DC	NZM4-XUHIV110-130DC	266235		
	220 V - 250 V DC	NZM4-XUHIV220-250DC	266236		

1230PIC-1130 Symbolphoto

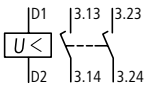


With 2 separate early-make auxiliary contacts

With 3 m connection cable instead of screw terminal.

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIV20L24AC	259612	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early make of auxiliary contacts on switching on (manual operation): approx. 20 ms Cannot be used in conjunction with remote operator NZM...-XR.... Undervoltage release cannot be installed together with early-make auxiliary contact NZM…-XHIV… or shunt release NZM…-XA…
	110 V - 130 V 50/60 Hz	NZM1-XUHIV20L110-130AC	259620		
	208 V - 240 V 50/60 Hz	NZM1-XUHIV20L208-240AC	259622		
	380 V - 440 V 50/60 Hz	NZM1-XUHIV20L380-440AC	259624		
	420 - 480 V 50/60 Hz	NZM1-XUHIV20L420-480VAC	105946		
	24 V DC	NZM1-XUHIV20L24DC	259630		
	18 V DC	NZM1-XUHIV20L18DC	171807		
Contacts 3.23 and 3.24 with separate 3 m connection cables.					
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V 50/60 Hz	NZM2/3-XUHIV2024AC	259640	1 Off	
	48 V 50/60 Hz	NZM2/3-XUHIV2048AC	259643		
	110 V - 130 V 50/60 Hz	NZM2/3-XUHIV20110-130AC	259648		
	208 V - 240 V 50/60 Hz	NZM2/3-XUHIV20208-240AC	259651		
	380 V - 440 V 50/60 Hz	NZM2/3-XUHIV20380-440AC	259653		
	420 - 480 V 50/60 Hz	NZM2/3-XUHIV20420-480VAC	105947		
	24 V DC	NZM2/3-XUHIV2024DC	259659		
	18 V DC	NZM2/3-XUHIV2018DC	171808		

1230PIC-768 Symbolphoto



Information relevant for export to North America

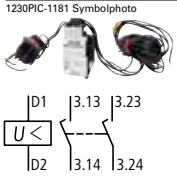
Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Undervoltage releases

With 2 separate early-make auxiliary contacts
For use with emergency switching off devices in conjunction with emergency switching off button.

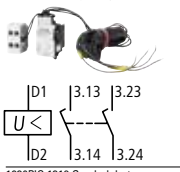
1230PIC-1181 Symbolphoto



Coil connections wired to clamp terminals, auxiliary contact connections with 3 m loose connection cables.

NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIV20KL24AC	284388	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Cannot be used in conjunction with remote operator NZM...-XR.... Undervoltage release cannot be installed simultaneously with early-make auxiliary contact NZM...- XHIV... or shunt release NZM...-XA...
	110 V - 130 V 50/60 Hz	NZM1-XUHIV20KL110-130AC	284389		
	208 V - 240 V 50/60 Hz	NZM1-XUHIV20KL208-240AC	284400		
	24 V DC	NZM1-XUHIV20KL24DC	284387		

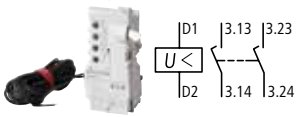
1230PIC-1129 Symbolphoto



Coil connections with 3 m loose connection cables, auxiliary contact connections wired to clamp terminals

NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIV20LK24AC	284402	1 Off
	110 V - 130 V 50/60 Hz	NZM1-XUHIV20LK110-130AC	284403	
	208 V - 240 V 50/60 Hz	NZM1-XUHIV20LK208-240AC	284404	
	24 V DC	NZM1-XUHIV20LK24DC	284401	

1230PIC-1319 Symbolphoto



Contacts 3.23 and 3.24 with separate 3 m connection cables

NZM4(-4), N(S)4(-4)	24 V 50/60 Hz	NZM4-XUHIV2024AC	266244	1 Off
	110 V - 130 V 50/60 Hz	NZM4-XUHIV20110-130AC	266247	
	208 V - 240 V 50/60 Hz	NZM4-XUHIV20208-240AC	266248	
	380 V - 440 V 50/60 Hz	NZM4-XUHIV20380-440AC	266249	
	18 V DC	NZM4-XUHIV2018DC	171809	
	24 V DC	NZM4-XUHIV2024DC	266258	

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

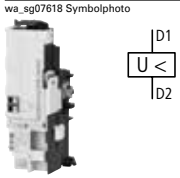
For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Undervoltage releases

Without auxiliary contact - with push in terminal

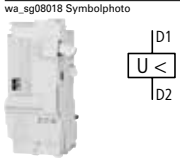
Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S.
For use with emergency-stop devices in connection with an emergency-stop button.

wa_sg07618 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V AC 50/60 Hz	NZM2/3-XU24AC-PI	189750	1 Off	If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Undervoltage release modules cannot be installed simultaneously with early-make contact NZM…-XHIV, shunt release NZM…-XA… or relais modules NZM...-X2A...
	48 V AC 50/60 Hz	NZM2/3-XU48AC-PI	189751		
	60 V AC 50/60 Hz	NZM2/3-XU60AC-PI	189752		
	110 - 130 V AC 50/60 Hz	NZM2/3-XU110-130AC-PI	189753		
	208 - 240 V AC 50/60 Hz	NZM2/3-XU208-240AC-PI	189754		
	12 V DC	NZM2/3-XU12DC-PI	189755		
	18 V DC	NZM2/3-XU18DC-PI	189756		
	24 V DC	NZM2/3-XU24DC-PI	189757		
	48 V DC	NZM2/3-XU48DC-PI	189758		
	60 V DC	NZM2/3-XU60DC-PI	189759		
	110 - 130 V DC	NZM2/3-XU110-130DC-PI	189760		
	220 - 250 V DC	NZM2/3-XU220-250DC-PI	189761		

wa_sg08018 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM4(-4), N(S)4(-4)	24 V AC 50/60 Hz	NZM4-XU24AC-PI	189762	1 Off	
	48 V AC 50/60 Hz	NZM4-XU48AC-PI	189763		
	60 V AC 50/60 Hz	NZM4-XU60AC-PI	189764		
	110 - 130 V AC 50/60 Hz	NZM4-XU110-130AC-PI	189765		
	208 - 240 V AC 50/60 Hz	NZM4-XU208-240AC-PI	189766		
	12 V DC	NZM4-XU12DC-PI	189767		
	18 V DC	NZM4-XU18DC-PI	189768		
	24 V DC	NZM4-XU24DC-PI	189769		
	48 V DC	NZM4-XU48DC-PI	189770		
	60 V DC	NZM4-XU60DC-PI	189771		
	110 - 130 V DC	NZM4-XU110-130DC-PI	189772		
	220 - 250 V DC	NZM4-XU220-250DC-PI	189773		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Undervoltage releases
NZM2/3, NZM4

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Undervoltage releases

With two early-make auxiliary contacts - with Push-In terminals

For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.
For use with emergency switching off devices in conjunction with emergency switching off button.

wa_sg07518 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V AC 50/60 Hz	NZM2/3-XUHIV24AC-PI	189774	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA... .
	48 V AC 50/60 Hz	NZM2/3-XUHIV48AC-PI	189775		
	60 V AC 50/60 Hz	NZM2/3-XUHIV60AC-PI	189776		
	110 - 130 V AC 50/60 Hz	NZM2/3-XUHIV110-130AC-PI	189777		
	208 - 240 V AC 50/60 Hz	NZM2/3-XUHIV208-240AC-PI	189778		
	12 V DC	NZM2/3-XUHIV12DC-PI	189779		
	18 V DC	NZM2/3-XUHIV18DC-PI	189780		
	24 V DC	NZM2/3-XUHIV24DC-PI	189781		
	48 V DC	NZM2/3-XUHIV48DC-PI	189782		
	60 V DC	NZM2/3-XUHIV60DC-PI	189783		
	110 - 130 V DC	NZM2/3-XUHIV110-130DC-PI	189784		
	220 - 250 V DC	NZM2/3-XUHIV220-250DC-PI	189785		

wa_sg07818 Symbolphoto

NZM1(-4), N(S)1(-4)	24 V AC 50/60 Hz	NZM4-XUHIV24AC-PI	189786	1 Off	
	48 V AC 50/60 Hz	NZM4-XUHIV48AC-PI	189787		
	60 V AC 50/60 Hz	NZM4-XUHIV60AC-PI	189788		
	110 - 130 V AC 50/60 Hz	NZM4-XUHIV110-130AC-PI	189789		
	208 - 240 V AC 50/60 Hz	NZM4-XUHIV208-240AC-PI	189790		
	12 V DC	NZM4-XUHIV12DC-PI	189791		
	18 V DC	NZM4-XUHIV18DC-PI	189792		
	24 V DC	NZM4-XUHIV24DC-PI	189793		
	48 V DC	NZM4-XUHIV48DC-PI	189794		
	60 V DC	NZM4-XUHIV60DC-PI	189795		
	110 - 130 V DC	NZM4-XUHIV110-130DC-PI	189796		
	220 - 250 V DC	NZM4-XUHIV220-250DC-PI	189797		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes

Undervoltage releases, off-delayed

Combination of separate delay unit and special releases.
For use with emergency switching off devices in conjunction with emergency switching off button. Not UL/CSA approved.

Delay unit

Voltage dips of less than 0.06 – 16 s do not cause disconnection of the NZM circuit breaker or N switch disconnector.

1230PIC-795 Symbolphoto

NZM1(-4), 2(-4), 3(-4), 4(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4) 50/60 Hz 220 V - 240 V 380 V - 440 V 480 V - 550 V DC/AC 24 V	UVU-NZM	260154	1 Off	Delay time can be set from 70 ms - 4 s. With additional external capacitor: • 30.000 µF ≧ 35 V up to 8 s • 90.000 µF ≧ 35 V up to 16 s Cannot be installed simultaneously with early-make auxiliary contact NZM…-XHIV… or shunt release NZM…-XA…. Delay unit for separate installation (mounting: top-hat rail or screws). For other operating voltages use a control transformer.

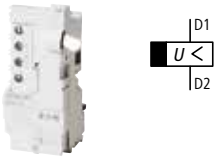
Special trip block

FFor combination with separate delay unit

Without auxiliary contacts

NZM1 with 3 m loose connection cables instead of screw terminal, NZM2, 3, and 4 with screw terminals.

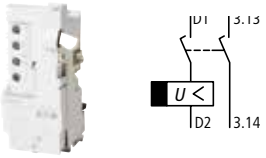
1230PIC-1148 Symbolphoto



NZM1(-4) N(S)1(-4)	NZM1-XUVL	271607	1 Off	Delay unit UVU-NZM is additionally required. Cannot be installed simultaneously with separate early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA....
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	NZM2/3-XUV	259527		
NZM4(-4) N(S)4(-4)	NZM4-XUV	266588		

With two early-make auxiliary contacts

1230PIC-1149 Symbolphoto

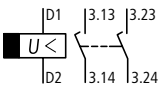


NZM1(-4) N(S)1(-4)	NZM1-XUVHIVL	271608	1 Off	Cannot be used in conjunction with remote operator NZM...-XR.... Delay unit UVU-NZM is additionally required. Cannot be installed simultaneously with separate early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA.... NZM1, 2, 3: Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms. NZM4: Early make of auxiliary contacts on switching on (manual operation): approx. 90 ms.
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	NZM2/3-XUVHIV	259684		
NZM4(-4) N(S)4(-4)	NZM4-XUVHIV	266596		

With two independently operating early-make auxiliary contacts

NZM1 with 3 m separate connection cables instead of screw terminal, NZM2, 3 and 4 with screw terminal, contact 3.23 and 3.24 with 3 m separate connection cables

1230PIC-1319 Symbolphoto



NZM1(-4) N(S)1(-4)	NZM1-XUVHIV20L	271609	1 Off	
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	NZM2/3-XUVHIV20	259688		
NZM4(-4) N(S)4(-4)	NZM4-XUVHIV20	266604		

Compact circuit breakers, switch disconnectors

Shunt releases
NZM1, NZM2/3, NZM4

	For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Shunt releases						
Without auxiliary contacts Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.						
1230PIC-756 Symbolphoto   With clamp terminal on left switch side	NZM1(-4), N(S)1(-4)	12 V AC/DC	NZM1-XA12AC/DC	259706	1 Off	When the shunt release is live, contact with the switch's main contacts on switching on is reliably prevented. Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XU... .
		24 V AC/DC	NZM1-XA24AC/DC	259708		
		48 V AC/DC	NZM1-XA48AC/DC	259720		
		60 V AC/DC	NZM1-XA60AC/DC	259722		
		110 V - 130 V AC/DC	NZM1-XA110-130AC/DC	259724		
		208 V - 250 V AC/DC	NZM1-XA208-250AC/DC	259726		
		380 V - 440 V AC/DC	NZM1-XA380-440AC/DC	259728		
		480 V - 525 V AC/DC	NZM1-XA480-525AC/DC	259730		
1230PIC-838 Symbolphoto   With 3 m connection cable instead of screw terminal	NZM1(-4), N(S)1(-4)	12 V AC/DC	NZM1-XAL12AC/DC	259734	1 Off	
		24 V AC/DC	NZM1-XAL24AC/DC	259736		
		110 V - 130 V AC/DC	NZM1-XAL110-130AC/DC	259742		
		208 V - 250 V AC/DC	NZM1-XAL208-250AC/DC	259744		
		380 V - 440 V AC/DC	NZM1-XAL380-440AC/DC	259746		
		480 V - 525 V AC/DC	NZM1-XAL480-525AC/DC	259748		
1230PIC-1370 Symbolphoto   -	NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	12 V AC/DC	NZM2/3-XA12AC/DC	259752	1 Off	
		24 V AC/DC	NZM2/3-XA24AC/DC	259754		
		48 V AC/DC	NZM2/3-XA48AC/DC	259756		
		60 V AC/DC	NZM2/3-XA60AC/DC	259758		
		110 V - 130 V AC/DC	NZM2/3-XA110-130AC/DC	259760		
		208 V - 250 V AC/DC	NZM2/3-XA208-250AC/DC	259763		
		380 V - 440 V AC/DC	NZM2/3-XA380-440AC/DC	259766		
		480 V - 525 V AC/DC	NZM2/3-XA480-525AC/DC	259768		
1230PIC-1387 Symbolphoto   -	NZM4(-4), N(S)4(-4)	12 V AC/DC	NZM4-XA12AC/DC	266446	1 Off	
		24 V AC/DC	NZM4-XA24AC/DC	266447		
		48 V AC/DC	NZM4-XA48AC/DC	266448		
		60 V AC/DC	NZM4-XA60AC/DC	266449		
		110 V - 130 V AC/DC	NZM4-XA110-130AC/DC	266450		
		208 V - 250 V AC/DC	NZM4-XA208-250AC/DC	266451		
		380 V - 440 V AC/DC	NZM4-XA380-440AC/DC	266452		
		480 V - 525 V AC/DC	NZM4-XA480-525AC/DC	266453		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Part no.	Article no.	Std. pack	Notes
	Mit Screw terminals			

Shunt releases

Capacitor unit 230 V 50/60 Hz in conjunction with shunt release NZM...-XA208-250 AC/DC
Enclosure: degree of protection IP20
Not UL/CSA approved

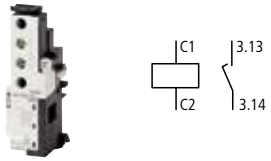
1230PIC-788 Symbolphoto

NZM1(-4), N(S)1(-4) NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4)	NZM-XCM	229413	1 Off	Enables the reliable use of circuit breakers as mesh network circuit breakers in the range from 0 – 110 % Un with constant switch-off time of 40 ms. If the mains voltage is absent, the installed capacitor supplies power for actuating the shunt release for at least 12 hours. The capacitor unit is arranged independently of the circuit breaker. Connect NZM-XCM to the power feed side. Note on engineering: Connect a standard auxiliary contact (HIN) as N/O in series with the coil of the shunt release! Standard auxiliary contact not included as standard

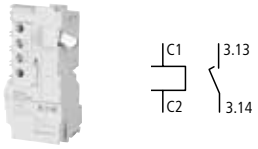
Shunt releases

For mesh network circuit breakers
For intermittent operation
Maximum On-time = 1 s
Operating range 10-110 % U_s
Not UL/CSA approved

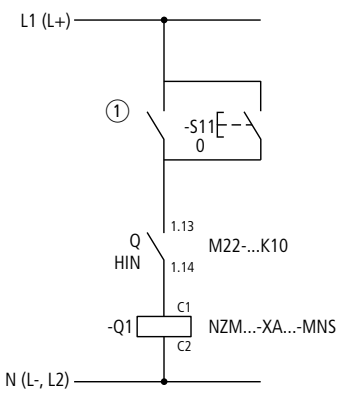
1230PIC-1382 Symbolphoto



sg07615 Symbolphoto

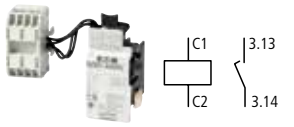
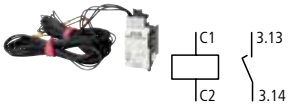
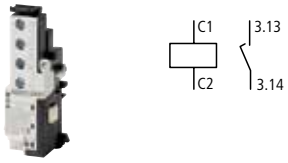
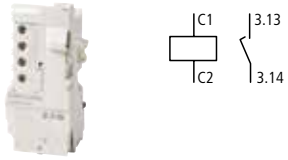


Without auxiliary contacts	NZM3-XA-230AC-MNS	274097	1 Off	Rated control voltage 230 V AC For use with NZM3(-4), N3(-4) and NZM4(-4), N4(-4) Cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or undervoltage release NZM...-XU.... Intermittent operation guaranteed by series connection of a make contact M22-(C)K10. The maximum duty factor of the shunt releases for mesh network circuit breakers is 1 s. **NZM...-XAHIV:** Cannot be used in conjunction with remote operator NZM...-XR.... NZM3: Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms. NZM4: Early make of auxiliary contact on switching on (manual operation): approx. 90 ms.
With early-make auxiliary contact	NZM3-XAHIV-230AC-MNS	274141		
Without auxiliary contacts	NZM4-XA-230AC-MNS	274138		
With early-make auxiliary contact	NZM4-XAHIV-230AC-MNS	274143		



① Reverse power relay contact from mesh network relay
-S11 Remote off
Q Standard auxiliary contacts
-Q1 Shunt releases

Shunt releases
NZM1, NZM2/3, NZM4

	For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Shunt releases						
With early-make auxiliary contact Not in combination with remote operator.						
1230PIC-1364 Symbolphoto 	With clamp terminal on left switch side.	NZM1(-4), N(S)1(-4)	12 V AC/DC	NZM1-XAHIV12AC/DC	259772	1 Off	When the shunt release is live, contact with the switch's main contacts on switching on is reliably prevented. Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms. Undervoltage release cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or undervoltage release NZM...-XU...
			24 V AC/DC	NZM1-XAHIV24AC/DC	259774		
			48 V AC/DC	NZM1-XAHIV48AC/DC	259776		
			60 V AC/DC	NZM1-XAHIV60AC/DC	259778		
			110 V - 130 V AC/DC	NZM1-XAHIV110-130AC/DC	259780		
			208 V - 250 V AC/DC	NZM1-XAHIV208-250AC/DC	259782		
			380 V - 440 V AC/DC	NZM1-XAHIV380-440AC/DC	259784		
1230PIC-1366 Symbolphoto 	With 3 m connection cable instead of screw terminal	NZM1(-4), N(S)1(-4)	12 V AC/DC	NZM1-XAHIVL12AC/DC	259790	1 Off	
			24 V AC/DC	NZM1-XAHIVL24AC/DC	259792		
			110 V - 130 V AC/DC	NZM1-XAHIVL110-130AC/DC	259798		
			208 V - 250 V AC/DC	NZM1-XAHIVL208-250AC/DC	259800		
			380 V - 440 V AC/DC	NZM1-XAHIVL380-440AC/DC	259802		
1230PIC-1374 Symbolphoto 	with Screw terminals	NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	12 V AC/DC	NZM2/3-XAHIV12AC/DC	259808	1 Off	
			24 V AC/DC	NZM2/3-XAHIV24AC/DC	259810		
			48 V AC/DC	NZM2/3-XAHIV48AC/DC	259812		
			60 V AC/DC	NZM2/3-XAHIV60AC/DC	259814		
			110 V - 130 V AC/DC	NZM2/3-XAHIV110-130AC/DC	259816		
			208 V - 250 V AC/DC	NZM2/3-XAHIV208-250AC/DC	259818		
			380 V - 440 V AC/DC	NZM2/3-XAHIV380-440AC/DC	259820		
1230PIC-1388 Symbolphoto 	with Screw terminals	NZM4(-4), N(S)4(-4)	12 V AC/DC	NZM4-XAHIV12AC/DC	266470	1 Off	When the shunt release is live, contact with the switch's main contacts on switching on is reliably prevented. Early make of auxiliary contact on switching on (manual operation): approx. 90 ms. Cannot be used in conjunction with remote operator NZM...-XR.... Undervoltage release cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or undervoltage release NZM...-XU....
			24 V AC/DC	NZM4-XAHIV24AC/DC	266471		
			48 V AC/DC	NZM4-XAHIV48AC/DC	266472		
			60 V AC/DC	NZM4-XAHIV60AC/DC	266473		
			110 V - 130 V AC/DC	NZM4-XAHIV110-130AC/DC	266474		
			208 V - 250 V AC/DC	NZM4-XAHIV208-250AC/DC	266475		
			380 V - 440 V AC/DC	NZM4-XAHIV380-440AC/DC	266476		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Shunt releases

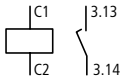
Without auxiliary contacts - with push in terminal

Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S.
For use with emergency-stop devices in connection with an emergency-stop button.

wa_sg07618 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	12 V AC/DC	NZM2/3-XA12AC/DC-PI	189798	1 Off	When the shunt release is live, contact with the circuit breaker's main contacts on switching on is reliably prevented. Shunt release modules cannot be installed simultaneously with early-make contact NZM…-XHIV, untervoltage release NZM…-XU…, or relais modules NZM...-X2A...
	24 V AC/DC	NZM2/3-XA24AC/DC-PI	189799		
	48 V AC/DC	NZM2/3-XA48AC/DC-PI	189800		
	60 V AC/DC	NZM2/3-XA60AC/DC-PI	189801		
	110 V - 130 V AC/DC	NZM2/3-XA110-130AC/DC-PI	189802		
	208 V - 250 V AC/DC	NZM2/3-XA208-250AC/DC-PI	189803		

wa_sg08018 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM4(-4), N(S)4(-4)	12 V AC/DC	NZM4-XA12AC/DC-PI	189804		
	24 V AC/DC	NZM4-XA24AC/DC-PI	189805		
	48 V AC/DC	NZM4-XA48AC/DC-PI	189806		
	60 V AC/DC	NZM4-XA60AC/DC-PI	189807		
	110 V - 130 V AC/DC	NZM4-XA110-130AC/DC-PI	189808		
	208 V - 250 V AC/DC	NZM4-XA208-250AC/DC-PI	189809		

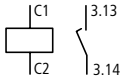
With early-make auxiliary contact - with push in terminal

Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S.
For use with emergency-stop devices in connection with an emergency-stop button.

wa_sg07518 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4), NZM3(-4), N(S)2(-4), N3(-4)	12 V AC/DC	NZM2/3-XAHIV12AC/DC-PI	189810	1 Off	When the shunt release is live, contact with the circuit breaker's main contacts on switching on is reliably prevented. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms (NZM2/3) and 90 ms (NZM4). Shunt release modules cannot be installed simultaneously with early-make contact NZM…-XHIV, untervoltage release NZM…-XU…, relais modules NZM...-X2A..., or remote operator NZM...-XR...
	24 V AC/DC	NZM2/3-XAHIV24AC/DC-PI	189811		
	48 V AC/DC	NZM2/3-XAHIV48AC/DC-PI	189812		
	60 V AC/DC	NZM2/3-XAHIV60AC/DC-PI	189813		
	110 V - 130 V AC/DC	NZM2/3-XAHIV110-130AC/DC-PI	189814		
	208 V - 250 V AC/DC	NZM2/3-XAHIV208-250AC/DC-PI	189815		

wa_sg07818 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM4(-4), N(S)4(-4)	12 V AC/DC	NZM4-XAHIV12AC/DC-PI	189816		
	24 V AC/DC	NZM4-XAHIV24AC/DC-PI	189817		
	48 V AC/DC	NZM4-XAHIV48AC/DC-PI	189818		
	60 V AC/DC	NZM4-XAHIV60AC/DC-PI	189819		
	110 V - 130 V AC/DC	NZM4-XAHIV110-130AC/DC-PI	189820		
	208 V - 250 V AC/DC	NZM4-XAHIV208-250AC/DC-PI	189821		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Relay modules
NZM2/3, NZM4

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Relay modules				
Undervoltage releases with two relais				
 wa_sg06918 Symbolphoto PXR20(25) NZM2(-4)-...X... PXR20(25) NZM3(-4)-...X...	NZM2/3-XU2A24AC	189724	1 Off	Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S. For use with emergency-stop devices in connection with an emergency-stop button. For signalizing commands or different states of the circuit breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit breakers with electronic trips. Under-voltage trip relay modules cannot be installed simultaneously with make-before-break auxiliary contact NZM...-XHIV, under-voltage trip NZM...-XU... or shunt trip NZM...-XA. Relay contacts for control wiring. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip.
	NZM2/3-XU2A24DC	189725		
	NZM2/3-XU2A110-130AC	189726		
	NZM2/3-XU2A208-240AC	189727		
 wa_sg06518 Symbolphoto PXR20(25) NZM4(-4)-...X...	NZM4-XU2A24AC	189728		
	NZM4-XU2A24DC	189729		
	NZM4-XU2A110-130AC	189730		
	NZM4-XU2A208-240AC	189731		
Undervoltage releases and 1 early-make auxiliary contact and 2 Relais				
 sg05318 Symbolphoto PXR20(25) NZM2(-4)-...X... PXR20(25) NZM3(-4)-...X...	NZM2/3-XUHIV2A24AC	189732	1 Off	For interlock circuits and load-shedding circuits as well as make-before-break interruption of the shunt trip for primary breaker use. Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S. For use with emergency-stop devices in connection with an emergency-stop button. For signalizing commands or different states of the circuit breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. When the undervoltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Make-before-break activation of auxiliary contact when switching on and off (manual operation): approx. 20 ms (NZM2/3) and 90 ms (NZM4). Only for use in combination with circuit breakers with electronic trips. Cannot be used in conjunction with NZM...-XR... remote operator. Undervoltage trip relay modules cannot be installed simultaneously with make-before-break auxiliary contact NZM...-XHIV, undervoltage trip NZM...-XU... or shunt trip NZM...-XA. Relay coil is controlled by trip unit. Relay contacts for control wiring. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip.
	NZM2/3-XUHIV2A24DC	189733		
	NZM2/3-XUHIV2A110-130AC	189734		
	NZM2/3-XUHIV2A208-240AC	189735		
 sg05018 Symbolphoto PXR20(25) NZM4(-4)-...X...	NZM4-XUHIV2A24AC	189736		
	NZM4-XUHIV2A24DC	189737		
	NZM4-XUHIV2A110-130AC	189738		
	NZM4-XUHIV2A208-240AC	189739		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Relay modules

Shunt release with two relays

wa_sg06918 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes
PXR20(25) NZM2(-4)-...X... PXR20(25) NZM3(-4)-...X...	NZM2/3-XA2A24AC	189740	1 Off	The breakers are actuated by a voltage pulse or by applying a no-break current. For signalizing commands or different states of the circuit breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit breakers with electronic trips. Shunt trip relay modules cannot be installed simultaneously with make-before-break auxiliary contact NZM...-XHIV, under-voltage trip NZM...-XU... or shunt trip NZM...-XA. Relay coil is controlled by trip unit. Relay contacts for control wiring. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip.
	NZM2/3-XA2A24DC	189741		
	NZM2/3-XA2A110-130AC	189742		
	NZM2/3-XA2A208-240AC	189743		

wa_sg06518 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes
PXR20(25) NZM4(-4)-...X...	NZM4-XA2A24AC	189744		
	NZM4-XA2A24DC	189745		
	NZM4-XA2A110-130AC	189746		
	NZM4-XA2A208-240AC	189747		

Relay module

wa_sg07318 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes
PXR20(25) NZM2(-4)-...X... PXR20(25) NZM3(-4)-...X...	NZM2/3-X2A	189722	1 Off	For signalizing commands or different states of the circuit breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. 24 V DC, 24 - 240 V 50/60 Hz. Only for use in combination with circuit breakers with electronic trips. Relay components cannot be installed simultaneously with make-before-break auxiliary breaker NZM...-XHIV, the under-voltage trip NZM...-XU.... or the shunt trip NZM...-XA.... Relay contacts for control wiring. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip

wa_sg07418 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes
PXR20(25) NZM4(-4)-...X...	NZM4-X2A	189723		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Compact circuit breakers, switch disconnectors

Door coupling rotary handles
NZM1, NZM2, NZM3, NZM4

Product view	For use with	Standard Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Door coupling rotary handles					
Complete including rotary drive and coupling parts An additional extension shaft is necessary with the NZM...-XT(V)D(V)(R)(-60) part numbers. Degree of protection IP66/UL/CSA type 4X, 12					
Standard, black/grey					
1230PIC-681, sg06315, 1230PIC-1419 Symbolphoto 	Lockable in 0 position on handle with up to 3 padlocks. With door interlock	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XTVD	260166	1 Off	Circuit breaker can also be installed in a horizontal position 90° left/right, with the handle still in the same position.
		NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XTVD	260168		
		NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XTVD	260170		
		NZM4(-4), N(S)4(-4)	NZM4-XTVD	266614		
1230PIC-681, sg06115, 1230PIC-1419 Symbolphoto 	Lockable on handle and switch with up to 3 padlocks. Can be locked in 0 position, with adequate modification also in I position. With door interlock. Lockable on switch in 0 position.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XTVDV	260172		
		NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XTVDV	260174		
		NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XTVDV	260176		
		NZM4(-4), N(S)4(-4)	NZM4-XTVDV	266616		
Red-yellow for emergency switching off					
1230PIC-682, 1230PIC-698, sg05315 Symbolphoto 	ALockable on handle and switch with up to 3 padlocks. Lockable in 0 position on handle. With door interlock. Lockable on switch in 0 position.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XTVDVR	260178	1 Off	Circuit breaker can also be installed in a horizontal position 90° left/right, with the handle still in the same position.
		NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XTVDVR	260180		
		NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XTVDVR	260182		
		NZM4(-4), N(S)4(-4)	NZM4-XTVDVR	266618		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

For maximum shaft length 60 mm Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Extremely narrow fittings Article no. when ordering separately	Article no.	Std. pack	Notes
NZM1-XTVD-60	271504	1 Off	Door interlock • Can not be defeated in the locked OFF and ON positions • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM…-XTVD(V)-60 • For maximum shaft length 60 mm • Without shaft support • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.	NZM1-XTVD-0	279392	1 Off	Circuit breaker can also be installed in a horizontal position 90° left/right, with the handle still in the same position.
NZM2-XTVD-60	271505			NZM2-XTVD-0	279393		
NZM3-XTVD-60	271506			NZM3-XTVD-0	279394		
NZM4-XTVD-60	271507			NZM4-XTVD-0	279395		
NZM1-XTVDV-60	271508			NZM1-XTVDV-0	279396		
NZM2-XTVDV-60	271509			NZM2-XTVDV-0	279397		
NZM3-XTVDV-60	271510			NZM3-XTVDV-0	279398		
NZM4-XTVDV-60	271511			NZM4-XTVDV-0	279399		
NZM1-XTVDVR-60	271512	1 Off	Door interlock • Can not be defeated in the locked OFF position. • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM…-XTVDVR-60 • For maximum shaft length 60 mm • Without shaft support • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.	NZM1-XTVDVR-0	279400	1 Off	Circuit breaker can also be installed in a horizontal position 90° left/right, with the handle still in the same position.
NZM2-XTVDVR-60	271513			NZM2-XTVDVR-0	279401		
NZM3-XTVDVR-60	271514			NZM3-XTVDVR-0	279402		
NZM4-XTVDVR-60	271515			NZM4-XTVDVR-0	279403		

Door coupling rotary handles
NZM1, NZM2, NZM3, NZM4

1230PIC-153 Symbolphoto

	For use with	Standard Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Extension shaft					
UL/CSA certification not required					
400 mm max. mounting depth	NZM1(-4), PN1(-4), NZM1/2-XV4 N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)		261232	1 Off	Length 290 mm, can be cut to required length.
	NZM3(-4), PN3(-4), NZM3/4-XV4 N(S)3(-4) NZM4(-4), N(S)4(-4)		261234		
600 mm max. mounting depth	NZM1(-4), PN1(-4), NZM1/2-XV6 N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)		260191		Length 425 mm, can be cut to required length.
	NZM3(-4), PN3(-4), NZM3/4-XV6 N(S)3(-4) NZM4(-4), N(S)4(-4)		260193		

Door coupling rotary handle with key lock
NZM1, NZM2, NZM3, NZM4

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Door coupling rotary handle with key lock

Door coupling rotary handle for operating the switch through a closed control panel door.

Standard, black/grey

1230PIC-1159 Symbolphoto

Lockable in position 0 using cylinder lock and key withdrawable
Also possible: lockable on the 0 position on the handle using up to 3 padlocks
With door interlock
Not defeatable in the locked OFF and ON positions with padlock on the handle.
Can be modified in the unlocked ON position.
Can be modified such that it can be defeated from the outside using a screwdriver.
Door to be opened in the OFF position when not locked.
External warning plate/designation label can be clipped on.
Complete including rotary drive and coupling parts.
Extension shaft additionally required. obtainable in two lengths.

For use with	Part no.	Article no.	Std. pack	Notes
NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XTVDKL	172528	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position. Cannot be combined with: • Remote operator • Side panel mounting • Mechan. interlock • Insulating surround
	NZM1-XTVDKLR	172529		
NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XTVDKL	172530	1 Off	
	NZM2-XTVDKLR	172531		
NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XTVDKL	172532	1 Off	
	NZM3-XTVDKLR	172533		
NZM4(-4), N(S)4(-4)	NZM4-XTVDKL	172534	1 Off	
	NZM4-XTVDKLR	172535		

1230PIC-1160 Symbolphoto

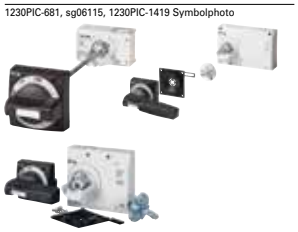
1230PIC-1161 Symbolphoto

1230PIC-1162 Symbolphoto

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Door coupling rotary handles for North America
NZM1, NZM2, NZM3, NZM4

	For use with	Standard Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Door coupling rotary handles					
Complete including rotary drive and coupling parts. Extension shaft additionally required. Degree of protection IP66/UL/CSA type 4X, 12. Difference to normal IEC handles: Door opening only possible with active rotation beyond the 0 position.					
Standard, black/grey					
 1230PIC-681, sg06315, 1230PIC-1419 Symbolphoto					
Lockable in 0 position on handle. With door interlock.	NZM1 N1	NZM1-XTVD-NA	271445	1 Off	Door interlock • Can not be defeated in the • locked OFF position. • Door opening with active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on
	NZM2, N2	NZM2-XTVD-NA	271446		
	NZM3, N3	NZM3-XTVD-NA	271447		
	NZM4, N4	NZM4-XTVD-NA	271448		
 1230PIC-681, sg06115, 1230PIC-1419 Symbolphoto					
Lockable on handle and switch with up to 3 padlocks. Lockable in 0 position on handle. With door interlock. Lockable on switch in 0 position	NZM1, N(S)1	NZM1-XTVDV-NA	100683		Door interlock • Can not be defeated in the locked OFF position. • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on.
	NZM2, N(S)2	NZM2-XTVDV-NA	100684		
	NZM3, N(S)3	NZM3-XTVDV-NA	100685		
	NZM4, N(S)4	NZM4-XTVDV-NA	100686		
Red-yellow for emergency switching off					
 1230PIC-682, 1230PIC-698, sg05315 Symbolphoto					
Lockable on handle and switch with up to 3 padlocks. Lockable in 0 position on handle. With door interlock. Lockable on switch in 0 position	NZM1, N(S)1	NZM1-XTVDVR-NA	271449	1 Off	Door interlock • Can not be defeated in the locked OFF position. • Door opening with active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on.
	NZM2, N(S)2	NZM2-XTVDVR-NA	271450		
	NZM3, N(S)3	NZM3-XTVDVR-NA	271451		
	NZM4, N(S)4	NZM4-XTVDVR-NA	271452		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

For maximum shaft length 60 mm Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Extremely narrow fittings Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
-			-	-			-
-				-			
-				-			
-				-			
NZM1-XTVDV-60-NA	100667	1 Off	Door interlock • Can not be defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Cannot be combined with mechanical interlock NZM…-XTVDV-60-NA • For a maximum shaft length of 60 mm • Without shaft support • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.	NZM1-XTVDV-0-NA	100675		Door interlock • Can not be defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Cannot be combined with mechanical interlock NZM…-XTVDV-0-NA For extremely narrow fittings • With special short extension shaft • Cannot be combined with additional handle NZM...-XDZ • AExternal warning plate/ designation label can be clipped on.
NZM2-XTVDV-60-NA	100668			NZM2-XTVDV-0-NA	100676		
NZM3-XTVDV-60-NA	100669			NZM3-XTVDV-0-NA	100677		
NZM4-XTVDV-60-NA	100670			NZM4-XTVDV-0-NA	100678		
NZM1-XTVDVR-60-NA	100671	1 Off	Door interlock • Can not be defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Door can be opened in OFF NZM…-XTVDVR-60 • For a maximum shaft length of 60 mm • Without shaft support • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.	NZM1-XTVDVR-0-NA	100679	1 Off	Door interlock • Can not be defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Door can be opened in OFF NZM…-XTVDVR-0 • For extremely narrow fittings • With special short extension shaft • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.
NZM2-XTVDVR-60-NA	100672			NZM2-XTVDVR-0-NA	100680		
NZM3-XTVDVR-60-NA	100673			NZM3-XTVDVR-0-NA	100681		
NZM4-XTVDVR-60-NA	100674			NZM4-XTVDVR-0-NA	100682		

Rotary handles
NZM...-XDV

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Rotary handle on circuit breaker				
Complete with rotary drive				
Standard, black/grey				
 1230PIC-759, 1230PIC-819, sg07015 Symbolphoto				
Lockable in 0 position on switch with up to 3 padlocks.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDV	260125	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDV	260127		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDV	260129		
	NZM4(-4), N(S)4(-4)	NZM4-XDV	266608		
 1230PIC-760, sg07215, sg07015 Symbolphoto				
Lockable in 0 position on handle with up to 3 padlocks.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDVG	285247	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDVG	285248		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDVG	165716		
	NZM4(-4), N(S)4(-4)	NZM4-XDVG	165718		
Red-yellow for emergency switch off				
 1230PIC-762, 1230PIC-820, sg07115 Symbolphoto				
Lockable in 0 position on switch with up to 3 padlocks.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDVR	260135	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDVR	260137		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDVR	260140		
	NZM4(-4), N(S)4(-4)	NZM4-XDVR	266610		
 1230PIC-761, sg07315, sg07115 Symbolphoto				
Lockable in 0 position on switch with up to 3 padlocks.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDVGR	285249	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDVGR	285280		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDVGR	165717		
	NZM4(-4), N(S)4(-4)	NZM4-XDVGR	165719		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Rotary handles with key lock					
Complete with rotary drive					
Standard, black/grey					
 1230PIC-1272 Symbolphoto Lockable in position 0 using cylinder lock and key withdrawable	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDKL	172536	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position. Cannot be combined with: • Remote operator • Side panel mounting • Mechan. interlock • Insulating surround
 1230PIC-1273 Symbolphoto	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDKL	172537	1 Off	
 1230PIC-1274 Symbolphoto	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDKL	172538	1 Off	
 1230PIC-1275 Symbolphoto	NZM4(-4), N(S)4(-4)	NZM4-XDKL	172539		

Information relevant for export to North America

IP66
UL/CSA Type 4X, Type 12

Rotary handles with door interlock
NZM...XDTV

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Rotary handles on switch with door interlock

Complete with rotary drive and insulating surround

Standard, black/grey

1230PIC-840 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Lockable in 0 position on handle with up to 3 padlocks, can also be modified for the I position. Also available with door interlock e.g. for MCC service distribution.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDTV	260131	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDTV	260133		

Red-yellow for emergency switching off

1230PIC-758 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Lockable in 0 position on handle with up t O 3 padlocks. Also available with door interlock e.g. for MCC service distribution.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDTVR	260142	1 Off	
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDTVR	260144		

Rotary handles on switch with door interlock for UL/CSA approved NA switches

Difference to normal IEC handles: Door opening only possible with active rotation beyond the 0 position.
Complete with rotary drive and insulating surround

Standard, black/grey

1230PIC-840 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Lockable in 0 position on handle with up to 3 padlocks, can also be modified for the I position. Also available with door interlock e.g. for MCC service distribution.	NZM1, N(S)1	NZM1-XDTV-NA	271453	1 Off	Door interlock • In the ON position, can be defeated from the outside using a 1 mm pin • Can not be defeated in the locked OFF and ON positions • Door opening only possible with active rotation beyond the 0 position. • Can only be switched ON when the door is closed • Cannot be combined with mechanical interlock Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2, N(S)2	NZM2-XDTV-NA	271454		

Red-yellow for emergency switching off

1230PIC-758 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Lockable in 0 position on handle with up to 3 padlocks. Also available with door interlock e.g. for MCC service distribution.	NZM1, N(S)1	NZM1-XDTVR-NA	271455	1 Off	
	NZM2, N(S)2	NZM2-XDTVR-NA	271456		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Model	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack

Main switch assembly kit

Equipment supplied:

- Door coupling rotary handle
- External warning plate/designation label in German/English
- Extension shaft NZM...-XV4
- Black and yellow flash

For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Other external warning plates/designation labels can be clipped on.
Degree of protection IP66/UL/CSA type 4X, 12.

With black door coupling rotary handle

1230PIC-739 Symbolphoto

Lockable in 0 position on handle with up to 3 padlocks, can also be modified for the I position. With door interlock	-	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB	266626	1 Off
	-	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB	266627	
	-	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB	266628	
	-	NZM4(-4) N(S)4(-4)	NZM4-XHB	271779	

With red door coupling rotary handle for use of switch as emergency switching off device to IEC/EN 60204-1

1230PIC-698 Symbolphoto

Lockable in 0 position on handle with up to 3 padlocks. Lockable door as additional feature, locking facility on circuit breaker in 0 position:	-	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHBR	266632	
	-	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHBR	266633	
	-	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHBR	266634	
	-	NZM4(-4) N(S)4(-4)	NZM4-XHBR	271842	

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

Main switch assembly kit
NZM...-XS...

	Model	For use with	Part no. / Article no. when ordering separately		Article no.	Std. pack

Main switch assembly kit

Equipment supplied:
- Door coupling rotary handle
- External warning plate/designation label in German/English
- Extension shaft NZM...-XV4
- Black and yellow flash

For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Other external warning plates/designation labels can be clipped on.
Degree of protection IP66/UL/CSA type 4X, 12.

NZM4-XS types

For side wall installation
Actuation of the switch on the control panel side wall
Switch mounting on mounting plate

Standard, black/grey

1230PIC-740 Symbolphoto

Lockable in 0 position on handle with up to 3 padlocks, with adequate modification also in I position.	For operation on the left	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XS-L	266641	1 Off
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XS-L	266642	
		NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XS-L	266643	
		NZM4(-4) N(S)4(-4)	NZM4-XS-L	289806	
	For operation on the right	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XS-R	266644	
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XS-R	266645	
		NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XS-R	266646	
		NZM4(-4) N(S)4(-4)	NZM4-XS-R	289807	

1230PIC-736 Symbolphoto

Red-yellow for emergency switching off

1230PIC-741 Symbolphoto

Lockable in 0 position on handle with up to 3 padlocks.	For operation on the left	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XSR-L	266653	1 Off
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSR-L	266654	
		NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XSR-L	266655	
		NZM4(-4) N(S)4(-4)	NZM4-XSR-L	289808	
	For operation on the right	NZM1(-4) PN1(-4), N(S)1(-4	NZM1-XSR-R	266656	
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSR-R	266657	
		NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XSR-R	266658	
		NZM4(-4) N(S)4(-4)	NZM4-XSR-R	289809	

1230PIC-737 Symbolphoto

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

	Model	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Information relevant for export to North America

Main switch assembly kit for side wall installation with mounting bracket

For direct mounting of circuit breaker and handle in the side wall of the control cabinet.
Equipment supplied:

- Door coupling rotary handle
- Special short extension shaft
- External warning plate/designation label in German/English
- Mounting bracket
- Black and yellow flash

For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Other external warning plates/designation labels can be clipped on.
Degree of protection IP66/UL/CSA type 4X, 12.

Standard, black/grey

1230PIC-727 Symbolphoto

Lockable in 0 position, with adequate modification also in I position. Minimum clearance between control panel side walls and circuit breaker is defined by mounting bracket. Extension cannot be used	For operation on the left	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XSM-L	266663	1 Off	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification: UL Listed, CSA certified Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSM-L	266664		
	For operation on the right	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XSM-R	266665		
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSM-R	266666		

Red-yellow for emergency switching off

1230PIC-728 Symbolphoto

Lockable in 0 position on handle. Minimum clearance between control panel side walls and circuitbreaker is defined by mounting bracket. Extension cannot be used.	For operation on the left	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XSRM-L	266671	1 Off	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification: UL Listed, CSA certified Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSRM-L	266672		
	For operation on the right	NZM1(-4) PN1(-4), N(S)1(-4	NZM1-XSRM-R	266673		
		NZM2(-4) PN2(-4), N(S)2(-4	NZM2-XSRM-R	266674		

Additional plate

For fitting to the mounting bracket when using neutral conductor or PE conductor terminals K25, K50, K95 or K150.

1230PIC-719 Symbolphoto

-	-	NZM1, NZM1-4, N1, N1-4, PN1, PN1-4, NS1, NZM2, NZM2-4, N2, N2-4, PN2, PN2-4, NS2, NZM1-NA, NZM2-NA	NZM1/2-XZB	266676	1 Off	UL/CSA certification not required

Main switch assembly kit
NZM...-XHB...

Model	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Information relevant for export to North America

Main switch assembly kit with additional rotary handle

Main switch assembly kit with additional rotary handle for switching with opened control panel door.
Equipment supplied:

- Door coupling rotary handle
- Additional rotary handle on switch with "Deliberate Action" operation
- Extension shaft NZM…-XV6 for mounting depth 600 mm, NZM1/2-XV4 with NZM1 for mounting depth 400 mm
- External warning plate/designation label in German/English
- Black and yellow flash

For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Other external warning plates/designation labels can be clipped on.
Degree of protection IP66/UL/CSA type 4X, 12.

With black door coupling rotary handle

1230PIC-899 Symbolphoto

1230PIC-1402 Symbolphoto

1230PIC-1300 Symbolphoto

1230PIC-1302 Symbolphoto

Lockable in 0 position on handle with up to 3 padlocks, can also be modified for the I position. Lockable door as additional feature, locking facility on circuit breaker in 0 position.	IEC	NZM1(-4) PN1(-4), N1(-4)	NZM1-XHB-DA	125956	1 Off	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No.: E140305 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12
	UL/CSA	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB-DA-NA	125958		
	IEC	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB-DA	116895		
	UL/CSA	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB-DA-NA	116897		
	IEC	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB-DA	118988		
	UL/CSA	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB-DA-NA	119000		
	IEC	NZM4(-4) PN4(-4), N(S)4(-4)	NZM4-XHB-DA	119002		
	UL/CSA	NZM4(-4) PN4(-4), N(S)4(-4)	NZM4-XHB-DA-NA	119004		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

Model	For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Information relevant for export to North America

Main switch assembly kit with additional rotary handle

Main switch assembly kit with additional rotary handle for switching with opened control panel door.
Equipment supplied:

- Door coupling rotary handle
- Additional rotary handle on switch with "Deliberate Action" operation
- External warning plate/designation label in German/English
- Extension shaft NZM…-XV6 for mounting depth 600 mm, NZM1/2-XV4 with NZM1 for mounting depth 400 mm
- Black and yellow flash

For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Other external warning plates/designation labels can be clipped on.
Degree of protection IP66/UL/CSA type 4X, 12.

With red door coupling rotary handle for use of switch as emergency switching off device

1230PIC-900 Symbolphoto

1230PIC-1403 Symbolphoto

1230PIC-1301 Symbolphoto

1230PIC-1303 Symbolphoto

Lockable in 0 position on handle with up to , 3 padlocks.
With door interlock and lockable on switch in 0 position.

IEC	NZM1(-4) PN1(-4), N1(-4)	NZM1-XHB-DAR	125957	1 Off	
UL/CSA	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB-DAR-NA	125959		
IEC	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB-DAR	116896		
UL/CSA	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB-DAR-NA	116898		
IEC	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB-DAR	118989		
UL/CSA	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB-DAR-NA	119001		
IEC	NZM4(-4) PN4(-4), N(S)4(-4)	NZM4-XHB-DAR	119003		
UL/CSA	NZM4(-4) PN4(-4), N(S)4(-4)	NZM4-XHB-DAR-NA	119005		

Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No. E140305
UL CCN DIHS
CSA File No. 022086
CSA Class No. 1437-01
NA Certification: UL Listed, CSA certified
Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12

Main switch assembly kit with additional rotary handle

External warning plate/designation label can be clipped on.
For enhanced busbar tag shroud on the incomer side, please order IP2X protection against contact with a finger.
IP66; UL/CSA Type 4X, Type 12.

Handle black + additional handle black, shaft 600 mm

1230PIC-899 Symbolphoto

NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB-DA-V6	144905	1 Off	
	NZM1-XHB-DA-V6-NA	144906		

Handle red + additional handle red, shaft 600 mm

1230PIC-900 Symbolphoto

NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB-DAR-V6	144907	1 Off	
	NZM1-XHB-DAR-V6-NA	144908		

Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No. E140305
UL CCN DIHS
CSA File No. 022086
CSA Class No. 1437-01
NA Certification: UL Listed, CSA certified
Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12

Main switch assembly kit, Rear-mounted drives
NZM...-XS..., NZM...-XRAV...

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America

Main switch assembly kit, bottom

External warning plate/designation label can be clipped on.
For enhanced busbar tag shroud on the incomer side, please order IP2X protection against contact with a finger.
IP66; UL/CSA Type 4X, Type 12.

1230PIC-736 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes	Information relevant for export to North America
UL/CSA, IEC	NZM1-XS-U	110106	1 Off		Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified Degree of Protection IEC: IP66, UL/CSA Type 4X, 12

1230PIC-737 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes	Information relevant for export to North America
UL/CSA, IEC	NZM1-XSR-U	110107	1 Off		

Rear-mounted drives

For direct rear connection of the switch to the side of the control panel or control panel door.
Switch actuation on rear through side wall or control panel door. For switch with toggle lever.
For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Degree of protection IP66, UL/CSA type 4X, 12.

Standard, black/grey

1230PIC-726 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes	Information relevant for export to North America
Lockable in 0 position on handle with up to 3 padlocks.	NZM1, N1, NS1, PN1 — NZM1-XRAV	107245	1 Off	External warning plate can be clipped on	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified Degree of Protection IEC: IP66, UL/CSA Type 4X, 12
	NZM1-4, N1-4, PN1-4 — NZM1-4-XRAV	107246			
	NZM2, N2, NS2, PN2 — NZM2-XRAV	107247			
	NZM2-4, N2-4, PN2-4 — NZM2-4-XRAV	107248			

Red-yellow for emergency switching off

For use with	Part no.	Article no.	Std. pack	Notes	Information relevant for export to North America
Lockable in 0 position on handle with up to 3 padlocks.	NZM1, N1, NS1, PN1 — NZM1-XRAVR	107249	1 Off	External warning plate can be clipped on	
	NZM1-4, N1-4, PN1-4 — NZM1-4-XRAVR	107260			
	NZM2, N2, NS2, PN2 — NZM2-XRAVR	107261			
	NZM2-4, N2-4, PN2-4 — NZM2-4-XRAVR	107262			

	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Side mounted handle						
Complete kit, includes handle, mechanical system, and Bowden cable (Length: 48, 72, 84 and 120 Inch).						
1230PIC-1424 Symbolphoto 	UL/CSA Type 4X, Type 12	NZM2...-NA, NS2...-NA	NZM2-XSH-12-48-NA	155482	1 Off	Lockable in the 0 position using up to 3 padlocks on the handle For 1 door on an American-style control panel (door plus wide bar next to door)	Caution! Intended exclusively for use outside the scope of application of IEC/EN 60947.
			NZM2-XSH-12-84-NA	155483			
			NZM2-XSH-12-120-NA	155484			
1230PIC-1406 Symbolphoto 		NZM3...-NA, NS3...-NA	NZM3-XSH-12-48-NA	155488			
			NZM3-XSH-12-84-NA	155489			
			NZM3-XSH-12-120-NA	155500			
1230PIC-1425 Symbolphoto 		NZM4...-NA, NS4...-NA	NZM4-XSH-12-48-NA	155504			
			NZM4-XSH-12-72-NA	155505			
			NZM4-XSH-12-120-NA	155506			
1230PIC-1404 Symbolphoto 	UL/CSA Type 4X	NZM2...-NA, NS2...-NA	NZM2-XSH-4X-48-NA	155485	1 Off	Lockable in the 0 position using up to 3 padlocks on the handle For 1 door on an American-style control panel (door plus wide bar next to door)	Caution! Intended exclusively for use outside the scope of application of IEC/EN 60947.
			NZM2-XSH-4X-84-NA	155486			
			NZM2-XSH-4X-120-NA	155487			
1230PIC-1405 Symbolphoto 		NZM3...-NA, NS3...-NA	NZM3-XSH-4X-48-NA	155501			
			NZM3-XSH-4X-84-NA	155502			
			NZM3-XSH-4X-120-NA	155503			
1230PIC-1426 Symbolphoto 		NZM4...-NA, NS4...-NA	NZM4-XSH-4X-48-NA	155507			
			NZM4-XSH-4X-72-NA	155508			
			NZM4-XSH-4X-120-NA	155509			

Remote operators
NZM1, NZM2/3, NZM4

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Remote operators

For remote switching of circuit breakers and switch disconnectors.
ON and OFF switching and resetting by means of two-wire or three-wire control.
Local switching by hand possible.
Lockable in the 0 position of the remote operator with up to 3 padlocks (hasp thickness: 4 – 8 mm).
When mounting the remote drive NZM2(3)-XR(D)... on 4 pole switch an additional cover NZM...- XAVPR is required.

Closing delay 110 – 170 ms, opening delay 110 – 170 ms

1230PIC-817 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4) N(S)2(-4)	110 - 130 V 50/60 Hz	NZM2-XRD110-130AC	115390	1 Off	Sliding switch for „Auto“ or „Manual“ Max. number auxiliary contacts: 2 standard auxiliary contacts, 1 trip-indicating auxiliary switches Cannot be combined with switch-disconnector PN... Cannot be combined with mechanical interlock. Do not install M22-CK11(20/02) dual auxiliary contacts in the center auxiliary contact slot in NZM2-XRD.
	208 - 240 V 50/60 Hz	NZM2-XRD208-240AC	115391		
	380 - 440 V 50/60 Hz[1)]	NZM2-XRD380-440AC	115392		
	24 - 30 V DC	NZM2-XRD24-30DC	115393		
	110 - 130 V DC	NZM2-XRD110-130DC	115394		
	220 - 250 V DC	NZM2-XRD220-250DC	115395		

Closing delay 60 – 100 ms, opening delay 300 – 3000 ms

Can be synchronized

1230PIC-769 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4) N(S)2(-4)	110 - 130 V 50/60 Hz	NZM2-XR110-130AC	259830		Cannot be combined with switch disconnector PN... Dual auxiliary switch M 22-CK11 (20/02) can not be combined with remote operator NZM3-XR...
	208 - 240 V 50/60 Hz	NZM2-XR208-240AC	259832		
	380 - 440 V 50/60 Hz	NZM2-XR380-440AC	259834		
	24 - 30 V DC	NZM2-XR24-30DC	259836		
	48 - 60 V DC	NZM2-XR48-60DC	259838		
	110 - 130 V DC110 - 130 V DC	NZM2-XR110-130DC	259840		
	220 - 250 V DC	NZM2-XR220-250DC	259842		

1230PIC-1434 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM3(-4) N(S)3(-4)	110 - 130 V 50/60 Hz	NZM3-XR110-130AC	259848		
	208 - 240 V 50/60 Hz	NZM3-XR208-240AC	259850		
	380 - 440 V 50/60 Hz	NZM3-XR380-440AC	259852		
	24 - 30 V DC	NZM3-XR24-30DC	259854		
	48 - 60 V DC	NZM3-XR48-60DC	259856		
	110 - 130 V DC110 - 130 V DC	NZM3-XR110-130DC	259858		
	220 - 250 V DC	NZM3-XR220-250DC	259860		

1230PIC-1414 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM4(-4) N(S)4(-4)	110 - 130 V 50/60 Hz	NZM4-XR110-130AC	266684		
	208 - 240 V 50/60 Hz	NZM4-XR208-240AC	266685		
	380 - 440 V 50/60 Hz	NZM4-XR380-440AC	266686		
	24 - 30 V DC	NZM4-XR24-30DC	266691		
	48 - 60 V DC	NZM4-XR48-60DC	266692		
	110 - 130 V DC110 - 130 V DC	NZM4-XR110-130DC	266693		
	220 - 250 V DC	NZM4-XR220-250DC	266694		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Plug screw terminal for remote operator

Plug with screw terminals for remote operator.

wa_sg06118 Symbolphoto

NZM...-XR...	NZM-XRS	180429	1 Off	

Cover, 4 pole for remote operator

Additional shroud for mounting the NZM2(3)-XR(D)... on a 4 pole switch is required.

1230PIC-732 Symbolphoto

NZM2-4, N2-4	NZM2-XAVPR	266677	1 Off	-
N2-4-...-DC	NZM2-XAVPR-S1-DC	158477		
NZM3-4, N3-4	NZM3-XAVPR	266678	1 Off	
N3-4-...-DC	NZM3-XAVPR-S1-DC	158478		

Sealing device, for NZM2-XRD

Manual operation possible only after removing seal.

1230PIC-1429 Symbolphoto

NZM2(-4) N(S)2(-4)	NZM2-XRDPL	137305	1 Off	Suitable for remote operator NZM2-XRD

Enclosure Cover

vt19318_r Symbolphoto

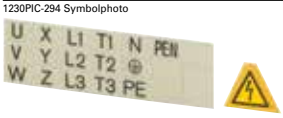
Degree of protection IP65
For increasing the mounting depth by 105 mm
For switching devices that shall not be operated by laymen
Transparent
Also usable for NZM remote operators

CI44... CI45... CI48...	NZM-RTR	194557	1 Off	Width: 265 mm Height: 253 mm

115A023 Symbolphoto

	Model	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
External warning plate/designation label						
Main switch – open in 0 position	german/english	NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4) NZM3(-4), PN3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4)	ZFS61/62-NZM7	272525	10 Off	A bilingual external warning plate/ designation label in German/ English is already included in the main switch assembly kit.
	german		ZFS61-NZM7	051089		
	english		ZFS62-NZM7	065957		
	french		ZFS63-NZM7	065958		
	chinese/ english		ZFS82-NZM	104910	1 Off	
	chinese		ZFS83-NZM	105945		
Symbol	Circuit breaker symbol		ZFS-LS-NZM	104829		
	Switch disconnector symbol		ZFS-LTS-NZM	104828		
	Disconnector symbol		ZFS-TS-NZM	115365		
Blanko	Blank (for engraving or printing)		ZFS60-NZM7	065896	10 Off	
NA main switch – open in 0 position	german/english	NZM1(-4), PN1(-4), N(S)1(-4), NZM2(-4), PN2(-4), N(S)2(-4), NZM3(-4), PN3(-4), N(S)3(-4), NZM4(-4), N(S)4(-4)	ZFS61/62-NZM-NA	144901	10 Off	A bilingual external warning plate/ designation label in German/ English is already included in the main switch assembly kit.
	english		ZFS62-NZM-NA	144902		
	english/spanish		ZFS62/77-NZM-NA	144903		
	english/ french		ZFS62/63-NZM-NA	144904		

1230PIC-294 Symbolphoto



Lightning symbol						
Including terminal marking for main switch						
	small	NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)	BPF-NZM7	217294	10 Off	Included as standard in main switch assembly kit. Marking of the input side of the switch is possible.
	large	NZM3(-4), PN3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4)	BPF-NZM10	231363		

	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America

Additional handle

Enables switching when control panel door is open

1230PIC-753 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)	NZM1/2-XDZ	266621	1 Off	Push-fits on to the extension shaft. 100 mm free extension shaft required. Cannot be combined with door coupling rotary handles NZM...-XT...-60 or NZM...-XT...0.	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM3(-4), PN3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4)	NZM3/4-XDZ	266622			

Insulating surround

For toggle levers, rotary handles with rotary drive and remote operators. Degree of protection IP40

1230PIC-679 Symbolphoto

1230PIC-691 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XBR	260195	1 Off	For rectangular cut-out on doors and enclosures with material thicknesses of 1.5 – 5 mm. External warning plate/ designation label can be clipped on. NZM4-XBR can not be combined with rotary handle with NZM2(-4) rotary mechanism	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XBR	260197			
NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XBR	284645			
NZM4(-4) N(S)4(-4)	NZM4-XBR	284646			

For toggle lever, narrow. Degree of protection IP40

1230PIC-722 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XBRS	115274		For rectangular cutouts on doors and enclosures with a material thickness of 1 - 3 mm. Clip-in external warning plate/ marking plate. Switches with slim insulating surrounds can be placed in a row next to each other. The required minimum clearance must be observed when doing so	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM2(-4), NZM3(-4) PN2(-4), N(S)2(-4) PN3(-4), N(S)3(-4)	NZM2/3-XBRS	115275			
NZM4(-4) N(S)4(-4)	NZM4-XBRS	115277			

Toggle lever locking device

Lockable in Off position with up to three padlocks (hasp thickness 4 – 8 mm).

sg00711 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1(-4), NZM1(-1), PN1(-4), N(S)1(-4)	NZM1-XKAV	260199	1 Off	Cannot be combined with insulating surround.	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified

1230PIC-684 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM2(-4), PN2(-4), N(S)2(-4) NZM3(-4), PN3(-4), N(S)3(-4)	NZM2/3-XKAV	260201			

Accessories
NZM...-XDZ, NZM...-XBR, NZM...-X...

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America

Spacers

Enables fast and attractively priced offsetting of varying construction sizes with/without rotary handle or remote operator to the same front depth.

1230PIC-717 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)	NZM1/2-XAB	260203	1 Off	Grid depth 17.5 mm, M4 thread One set contains 4 spacers Maximum component fitting: NZM1: 4 off per fixing screw, NZM2: 2 off per fixing screw, 2 (NZM1) or 4 (NZM2) fixing screws contained per switch	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM3(-4) PN3(-4), N(S)3(-4) NZM4(-4) N(S)4(-4)	NZM3-XAB	260211	1 Off	Grid depth 17.5 mm, M5 thread One set contains 4 spacers NZM3, NZM4: 1 off per fixing screw 4 fixing screws per switch included	

Clips

Allows switches to be clipped onto DIN rails.

1230PIC-723 Symbolphoto

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1(-4) PN1(-4) N(S)1(-4)	NZM1-XC35	260213	1 Off	For 35 mm top-hat rails. Cannot be combined with plug-in units	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM2(-4) PN2(-4) N(S)2(-4)	NZM2-XC75	260215		For 75 mm top-hat rails. Cannot be combined with remote operator and plug-in units.	

	For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Mechanical interlock for (door coupling) rotary handles						
1230PIC-766 Symbolphoto 	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XMV	281581	1 Off	Cannot be combined with NZM...-XTV...-NA door coupling rotary handles. At least 2 interlock modules are required in order to assemble a mechanical interlock. Possible combinations and interlock versions Engineering Order Bowden cable separately	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
sg07515 Symbolphoto 	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XMV	281582			
sg07415 Symbolphoto 	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XMV	281583			
sg07415 Symbolphoto 	NZM4(-4) N(S)4(-4)	NZM4-XMV	281584			
Bowden cables						
For mechanical interlock for (door coupling) rotary handles						
1230PIC-807 Symbolphoto 	Length: 225 mm	NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4) NZM3(-4), PN3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4)	NZM-XBZ225	281585	1 Off	Selection and combinations of Bowden cables	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
	Length: 600 mm		NZM-XBZ600	281586			
	Length: 1000 mm		NZM-XBZ1000	281587			

Compact circuit breakers, switch disconnectors

Mechanical interlock / Paralleling mechanism
NZM...XMV(R)(L), NZM-XBZ...

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America

Mechanical interlock for remote operator

1230PIC-734 Symbolphoto

For 2 switches of the same or different construction size with opposed operation. Adjacent mounting.

NZM2(-4), N(S)2(-4) +NZM2(-4), N(S)2(-4)	NZM2-XMVR	104543	1 Off	Contains parts for both switch sides. Extension shaft additionally required. Maximum switch spacing Can not be combined with rotary handles, door coupling rotary handles, early-make auxiliary contacts, and direct-switching remote operator NZM2-XRD.	-
NZM2(-4), N(S)2(-4) +NZM3(-4), N(S)3(-4)	NZM2/3-XMVR	104544			
NZM3(-4), N(S)3(-4) +NZM3(-4), N(S)3(-4)	NZM3-XMVR	104545			
NZM3(-4), N(S)3(-4) +NZM4(-4), N(S)4(-4)	NZM3/4-XMVR	104546			
NZM4(-4), N(S)4(-4) +NZM4(-4), N(S)4(-4)	NZM4-XMVR	104547			

For 2 switches of the same or different construction size with opposed operation.
Extra long Bowden cable for mounting one above the other or in adjacent enclosures.

NZM2(-4), N(S)2(-4) +NZM2(-4), N(S)2(-4)	NZM2-XMVRL	104548	1 Off	Contains parts for both switch sides. Extension shaft additionally required. Maximum switch spacing Can not be combined with rotary handles, door coupling rotary handles, early-make auxiliary contacts, and direct-switching remote operator NZM2-XRD.	-
NZM2(-4), N(S)2(-4) +NZM3(-4), N(S)3(-4)	NZM2/3-XMVRL	104549			
NZM3(-4), N(S)3(-4) +NZM3(-4), N(S)3(-4)	NZM3-XMVRL	104550			
NZM3(-4), N(S)3(-4) +NZM4(-4), N(S)4(-4)	NZM3/4-XMVRL	104551			
NZM4(-4), N(S)4(-4) +NZM4(-4), N(S)4(-4)	NZM4-XMVRL	104552			

Paralleling mechanism

Simultaneous actuation of 2 PN switch disconnectors of the same type mounted side-by-side.

1230PIC-749 Symbolphoto

PN1(-4) + PN1(-4)	PN1-XPA	283471	1 Off	**PN1, PN2** • 1 x rotary handle on circuit (-XD) supplied. • 1 x door coupling rotary handle (-XTVD) supplied.	Not UL/CSA approved
PN2(-4) + PN2(-4)	PN2-XPA	283472			

1230PIC-750 Symbolphoto

PN3(-4) + PN3(-4)	PN3-XPA	283473		**PN3** • 1 × rotary handle on switch (not lockable) supplied. • 1 × door coupling rotary handle (not lockable) supplied. • Not suitable for use as a main switch.	

Number of poles	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases delayed	Setting range: Short-circuit releases Non-delayed	Part no.	Article no.	Std. pack
	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x \ldots$	$I_i = I_n x...$			

Circuit breakers with earth-fault release, 3 pole For apparatus with power electronics, such as power inverters and frequency inverters

AC/DC sensitive according to core-balance principle in range of 0 – 100 kHz residual-current frequency.
Not UL/CSA approved.
Suitable for use in three-phase systems.
Rated operating voltage: 400 V (50/60 Hz)
Rated fault current IΔn = 0.03 A
Internal power supply U_e = 50 - 400 V
Turnkey combination of current-limiting circuit breaker and residual-current device.
Adjusting buttons can be sealed.
Depending on the cable manufacturer up to 240 mm² can be connected.

High switching capacity 150 kA; 415 V 50/60 Hz

1230PIC-1421 Symbolphoto

3 pole	100	80 - 100	600 - 1000	6 - 10	NZMH2-A100-FIA30	158530	1 Off
	125	100 - 125	750…1250	6 - 10	NZMH2-A125-FIA30	129710	
	160	125 - 160	960…1600	6 - 10	NZMH2-A160-FIA30	112627	
	200	160 - 200	1200…2000	6 - 10	NZMH2-A200-FIA30	112628	
	250	200 - 250	1500…2500	6 - 10	NZMH2-A250-FIA30	112629	
	100	80 - 100	600 - 1000	6 - 10	NZMH2-A100-FIA30-BT	158531	
	125	100 - 125	750…1250	6 - 10	NZMH2-A125-FIA30-BT	129711	
	160	125 - 160	960…1600	6 - 10	NZMH2-A160-FIA30-BT	116304	
	200	160 - 200	1200…2000	6 - 10	NZMH2-A200-FIA30-BT	116305	
	250	200 - 250	1500…2500	6 - 10	NZMH2-A250-FIA30-BT	116306	
	100	80 - 100	600 - 1000	6 - 10	NZMH2-A100-FIA30-500AC	184959	
	125	100 - 125	750…1250	6 - 10	NZMH2-A125-FIA30-500AC	184960	
	160	125 - 160	960…1600	6 - 10	NZMH2-A160-FIA30-500AC	184961	
	200	160 - 200	1200…2000	6 - 10	NZMH2-A200-FIA30-500AC	184962	
	250	200 - 250	1500…2500	6 - 10	NZMH2-A250-FIA30-500AC	184963	

Earth-fault release
NZM...XFI...

	For use with	Number of conductors	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Earth-fault release						
To IEC/EN 60947-2 Not UL/CSA approved Suitable for use in three- and single-phase systems						
Pulse-current sensitive according to core-balance principle For 3 and 4 pole NZM1(-4) circuit breakers and N1(-4) Switch disconnectors, dependant on mains power U_e = 200 … 415 V 50/60 Hz						
Mounting on right side up to I_n = 160 A at I_{Cu} = 50 kA						
1230PIC-799 Symbolphoto 	Rated fault current $I_{\Delta n}$ = 0.03 A	NZM1 N(S)1	3 pole	NZM1-XFI30R	104603	1 Off	At $I_{\Delta n}$ = 0.03 A: delay time t_v always fixed at 10 ms. Alarm indication > 30 % $I_{\Delta n}$ by yellow LED. Trip indication by up to 2 auxiliary contacts (HIAFI) can be retrofitted: N/O = M22-K01, NC = M22-K10 are reset with the reset toggle lever. If the trip-indicating auxiliary contact in the fault current block is used, the NC contacts operates as a N/O contact and the NC contact operates as N/O contacts. Double contact not permissible. Not in combination with insulated enclosure or main switch assembly kit for side wall installation with mounting bracket. NZM1-XFI...R can not be used in combination with lower cover NZM1-XKSA. NZM1-XFI…U not in combination with shunt or undervoltage release, early-make auxiliary contacts. Rated ultimate short-circuit breaking capacity is determined by the fitted NZM1 or NS1, or, lif a switch disconnector N1 is used, by the fitted back-up fuse. Technical data. Adjusting buttons can be sealed.
		NZM1-4 N1-4	4 pole	NZM1-4-XFI30R	104606		
1230PIC-864 Symbolphoto 	Rated fault current $I_{\Delta n}$ = 0.3 A	NZM1 N(S)1	3 pole	NZM1-XFI300R	104604		
		NZM1-4 N1-4	4 pole	NZM1-4-XFI300R	107607		
1230PIC-841 Symbolphoto 	Rated fault current $I_{\Delta n}$ = 0.03 - 0.1 - 0.3 - 0.5 - 1 - 3 A Delay time t_v = 10 - 60 - 150 - 300 - 450 ms	NZM1 N(S)1	3 pole	NZM1-XFIR	104605		
		NZM1-4 N1-4	4 pole	NZM1-4-XFIR	104608		
Bottom assembly up to 100 A						
1230PIC-865 Symbolphoto 	Rated fault current $I_{\Delta n}$ = 0.03 A	NZM1 N(S)1	3 pole	NZM1-XFI30U	104609	1 Off	
		NZM1-4 N1-4	4 pole	NZM1-4-XFI30U	104612		
1230PIC-896 Symbolphoto 	Rated fault current $I_{\Delta n}$ = 0.3 A	NZM1 N(S)1	3 pole	NZM1-XFI300U	104610		
		NZM1-4 N1-4	4 pole	NZM1-4-XFI300U	104613		
1230PIC-755 Symbolphoto 	Rated fault current $I_{\Delta n}$ = 0.03 - 0.1 - 0.3 - 0.5 - 1 - 3 A Delay time t_v = 10 - 60 - 150 - 300 - 450 ms	NZM1 N(S)1	3 pole	NZM1-XFIU	104611		
		NZM1-4 N1-4	4 pole	NZM1-4-XFIU	104614		

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Power supply module, 24 VDC				
24 V DC supply to the electronic trip.				
wa_sg06318 Symbolphoto 				
NZM2(-4)-VX(MX)...	NZM2-XPS24DC	189822	1 Off	Mechanical pass-through of the switch's status (I, O) for use by the remote operator.
NZM3(-4)-VX(MX)...	NZM3-XPS24DC	189823		
NZM4(-4)-VX(MX)...	NZM4-XPS24DC	189824		
Interface module, PXR20, connection for communication				
For universal connection of optional circuit breaker functions. Required for communication The connection types depend on the design of the interface module. Circuit breaker status detection (I, +, 0) for the electronic trip unit. The switch's status can be communicated. 24 V DC auxiliary power connection. Connection for Communications Adapter Module (CAM). Optional CAM available for various Fieldbus communication systems (Profibus DP, SmartWire-DT, Ethernet-based Fieldbus). Connection to optional, internal Modbus RTU module.				
wa_sg06318 Symbolphoto 				
NZM2(-4)-VX(MX)(PX)(PMX)...	NZM2-XBSM	189825	1 Off	Mechanical pass-through of the switch's status (I, O) for use by the remote operator.
NZM3(-4)-VX(MX)(PX)(PMX)...	NZM3-XBSM	189826		
NZM4(-4)-VX(MX)..., NZM4-4-PX(PMX)...	NZM4-XBSM	189827		
NZM4-PX(PMX)...	NZM4-XBSM-N	189830		Connection to neutral voltage Vn. Mechanical pass-through of the switch's status (I, O) for use by the remote operator
Interface module, PXR25, connection for communication, zone selectivity, ARMS				
For universal connection of optional circuit breaker functions. Required for communication. The connection types depend on the design of the interface module. Circuit breaker status detection (I, +, 0) for the electronic trip unit. The switch's status can be communicated. 24 V DC auxiliary power connection. Connection for Communications Adapter Module (CAM). Optional CAM available for various Fieldbus communication systems (Profibus DP, SmartWire-DT, Ethernet-based Fieldbus). Connection to optional, internal Modbus RTU module. Connector for Logical Zone Selectivity (ZSI) function. Mechanical pass-through of the switch's status (I, O) for use by the remote operator. The interface module is included in the standard delivery of PXR25 trip units.				
sg05118 Symbolphoto 				
NZM2(-4)-PX...-TZ	NZM2-XBSM-TZ	189832	1 Off	
NZM3(-4)-PX...-TAZ	NZM3-XBSM-TAZ	189833		Connection for maintenance mode (ARMS).
NZM4-4-PX...-TAZ	NZM4-XBSM-TAZ	189835		
NZM4-PX...-TAZ	NZM4-XBSM-TAZ-N	189834		Connection to neutral voltage Vn. Connection for maintenance mode (ARMS).

Communication module
NZM...

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Internal communication module				
For the Fieldbus connection. The module is mounted in the right hand accessory pocket of the circuit breaker. For connection to Modbus RTU. RS485 interface.				
 sg05218 NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	PXR-RCAM-MRTU-I	189836	1 Off	Cannot be used with the PXR10 NZM-AX electronic trip.
Communication module				
For Fieldbus connection to the IZMX and NZM circuit breakers. The module is mounted externally near the circuit breaker.				
 sg04818, wa_sg06218 NZM2(3)(4)(-4)-VX(MX)(PX)(PMX) IZMX...	PXR-PCAM	195565	1 Off	Connection to Profibus DP Cannot be used with the PXR10 NZM-AX electronic trip.
NZM2(3)(4)(-4)-VX(MX)(PX)(PMX) IZMX...	PXR-ECAM-MTCP	195566		For connection to Modbus TCP. Cannot be used with the PXR10 NZM-AX electronic trip.
For Industrial Ethernet connection to the NZM circuit breakers. Requires PXR-RCAM-MRTU-I module for connection to the circuit breaker.				
 NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	PXR-ECAM-PNET	302050	1 Off	For connection to Profinet. Cannot be used with the PXR10 NZM-AX electronic trip.
NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	PXR-ECAM-IP	302051		For connection to Ethernet/IP. Cannot be used with the PXR10 NZM-AX electronic trip.
NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	PXR-ECAM-ECT	302052		For connection to EtherCAT. Cannot be used with the PXR10 NZM-AX electronic trip.
Connection cable				
PXR-PCAM / PXR-ECAM-MTCP	PXR-XCAM-NZMCABLE	195905	1 Off	For fieldbus connection to NZM circuit breakers. The connecting cable is mounted between the NZM and the external communication module. Connection to NZM prefabricated. Connection to CAM open. Length 3 m. Can be shortened as needed.

Max. Rated Operational Current I_e (A)	Rated Operational Voltage U_e (V)	Adapter Width (mm)	Adapter Length (mm)	Special Features	For use with	Notes	Part no.	Article no.	Std. pack (Stk.)

NZM Busbar Adapter, 3-pole

Busbar Adapter NZM

- For use on flat copper bars 12 - 30 x 5/10, Double-T-Profiles and Triple-T-Profiles.
- Self-extinguishing according to UL 94.
- Track resistance CTI 200.
- Temperature-resistant up to 120 °C.

1230PIC-668 AO

160	690	92	200	For connecting to the system at the top or bottom through fixed connection bars included in the scope of delivery.[1] [2]	NZM1 PN1 N1 NS1	For switches with standard connection frame-type terminals. To be snapped onto the busbar by means of a combi-base.	NZM1-XAD160	104554	1

wa_vt12213

250	690	106	190	For connecting to the system at the top/bottom through a tube-type of connection at the rear. Tube included in the scope of delivery.[3]	NZM2 PN2 N2 NS2	Use only in combination with auxiliary type (+)NZM2-XKR4. To be screwed tonto the busbar by means of a clawtype of clamp.	NZM2-XAD250	104555	1

wa_vt22513, wa_vt12213

630	690	140	300	For connecting to the system at the top/ bottom through a tubetype of connection at the rear. Tube included in the scope of delivery.[3]	NZM3 PN3 N3	Use only in combination with auxiliary type (+)NZM3-XKR13. To be screwed tonto the busbar by means of a claw-type of clamp.	NZM3-XAD630	107206	1

Terminal for Device Adadpter NZM

wa_vt12713

250	690	–	–	To cover the connection to the system at the top/bottom.	NZM2 PN2 N2 NS2	For device combination NZM2 use with auxiliary type +NZM2-XKR4O or +NZM2- XKR4U.	NZM2-XKR4	281666	1

wa_vt12613

630	690	–	–	To cover the connection to the system at the top/bottom.	NZM3 PN3 N3	For device combination NZM3 use with auxiliary type +NZM3- XKR13O or +NZM3-XKR13U.	NZM3-XKR13	281668	1

[1] To be snapped onto the voltage-free busbar.
[2] Thanks to the combi-base it can be adjusted to a bar width of both 5 and 10 mm.
[3] To be screwed onto the voltage-free busbar.

Max. Rated Operational Current I_e (A)	Rated Operational Voltage U_e (V)	Adapter Width (mm)	Adapter Length (mm)	Special Features	For use with	Notes	Part no.	Article no.	Std. pack (Stk.)

NZM Busbar Adapter, 4-pole

Busbar Adapter NZM

- For use on fl at copper bars 12 - 30 x 5/10, Double-T-Profiles and Triple-T-Profiles.
- Self-extinguishing according to UL 94.
- Track resistance CTI 200.
- Temperature-resistant up to 120 °C.

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250	690	140	–	For connecting to the system at the top through a tubetype of connection at the rear. Tube included in the scope of deliverys.[3]	NZM2(-4) PN2(-4) N2(-4) NS2(-4)	Use only in combination with auxiliary type (+)NZM2-4-XKR4. To be screwed tonto the busbar by means of a claw-type of clamp.	NZM2-4-XAD250	138388	1

01063598_0

630	690	185	–	For connecting to the system at the top through a tube-type of connection at the rear. Tube included in the scope of delivery.[3]	NZM3(-4) PN3(-4) N3(-4) NS3(-4)	Use only in combination with auxiliary type (+)NZM3-4-XKR13. To be screwed tonto the busbar by means of a clawtype of clamp.	NZM3-4-XAD630	138389	1

Terminal for Device Adadpter NZM

NZM2-4-XKR4

250	690	–	–	To cover the connection to the system at the top.	NZM2-4 PN2-4 N2-4 NS2-4	For device combi-nation NZM2 use with auxiliary type +NZM2-4-XKR40.	NZM2-4-XKR4	118907	1

NZM2-4-XKR4

630	690	–	–	To cover the connection to the system at the top.	NZM3-4 PN3-4 N3-4 NS3-4	For device combi-nation NZM3 use with auxiliary type +NZM3-4-XKR130.	NZM3-4-XKR13	119020	1

[1] To be snapped onto the voltage-free busbar.
[2] Thanks to the combi-base it can be adjusted to a bar width of both 5 and 10 mm, cross-section of conductor 6 x 9 x 0.8.
[3] To be screwed onto the voltage-free busbar.

Busbar Adapter NZM

	NZM1-XAD160	NZM2-XAD250	NZM3-XAD630
Design	3-pole, 690 V~	3-pole, 690 V~	3-pole, 690 V~
Bar system	60 mm	60 mm	60 mm
Bar contacting	combi-base	claw-type terminal	claw-type terminal
Connection of the switchgear	top/bottom	top or bottom	top or bottom
Short circuit current rating SCCR	32 kA at 480 V	35 kA at 480 V 50 kA at 600 V	65 kA at 480 V 50 kA at 600 V
Base body:			
	Thermoplastic	Thermoplastic	Thermoplastic
	Temperature resistant up to 120 °C	Temperature resistant up to 120 °C	Temperature resistant up to 120 °C
	Self-extinguishing according to UL 94	Self-extinguishing according to UL 94	Self-extinguishing according to UL 94
	Track resistance CTI 200	Track resistance CTI 200	Track resistance CTI 200
	Halogen-free	Halogen-free	Halogen-free

NZM1-XAD160

Derating:

Ambient temperature	25	30	35	40	45	50	55
Permissible rated current	160	155	150	146	141	136	130
Derating to 160 A	1	0.97	0.94	0.91	0.88	0.85	0.81

NZM2-XAD250

No derating

NZM3-XAD630

Derating:

Ambient temperature	20	30	40	50	60	65	70
Permissible rated current	630	605	580	554	529	517	504
Derating to 630 A	1	0.96	0.92	0.88	0.84	0.82	0.80

Notes:
Please observe the de-rating coefficients listed in the table above to determine the maximum ampacity allowed at different ambient temperatures!

Example:
An NZM3...3-...630... device with an NZM3-XAD630 device adapter should be operated at an ambient temperature of 50 °C.

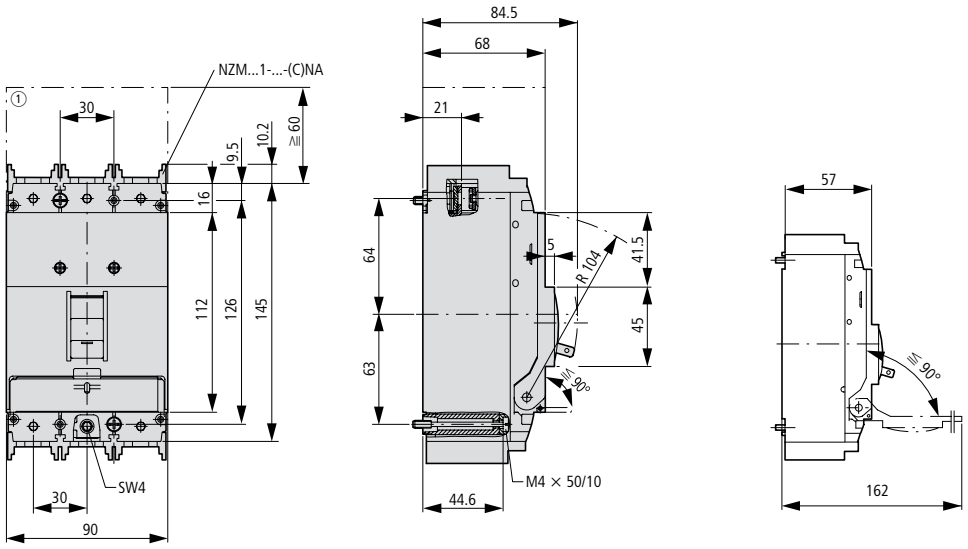
Question:
What is the maximum rated operating current Ie allowed I_e ? =>

Solution:
At an ambient temperature of 50 °C, the de-rating cor.m.sicient is 0.88. This means that I_e = 630 A x 0.88 = 544 A.
At an ambient temperature of 50 °C, the device can therefore be operated at a maximum of I_e = 544 A.

Dimensions (mm)

3 pole

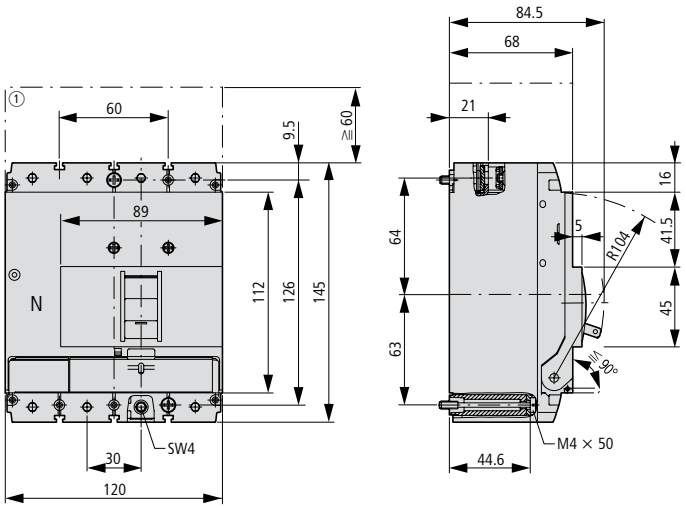
NZMB1
NZMC1
NZMN1
NZMH1
PN1
N1
NS1



① Blow-out area, minimum distance to other parts ≧ 60 mm

4 pole

NZMB1-4
NZMC1-4
NZMN1-4
NZMH1-4
PN1-4
N1-4

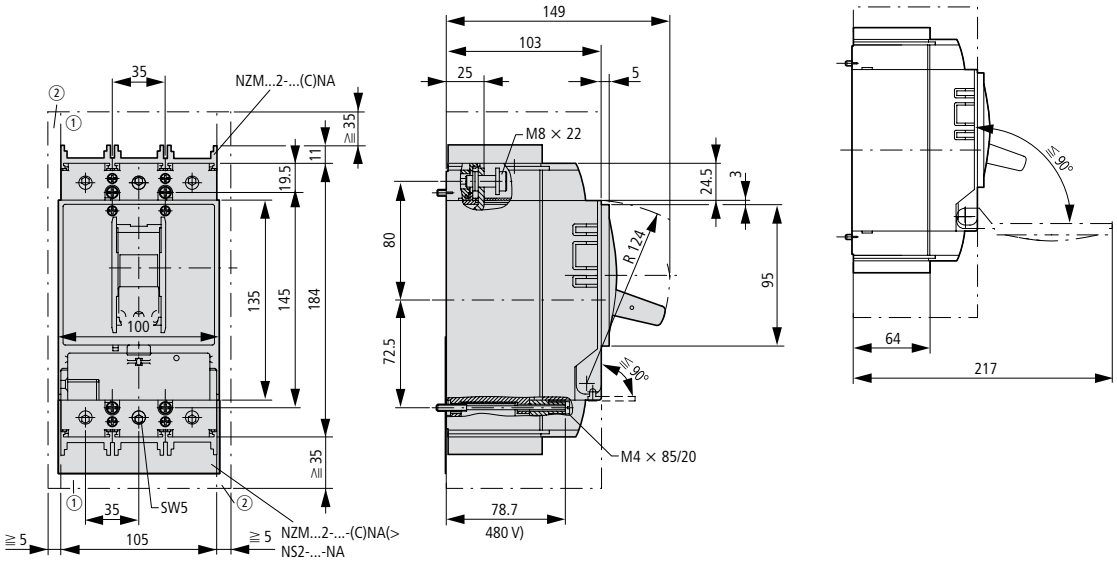


① Blow-out area, minimum distance to other parts ≧ 60 mm

Dimensions (mm)

3 pole

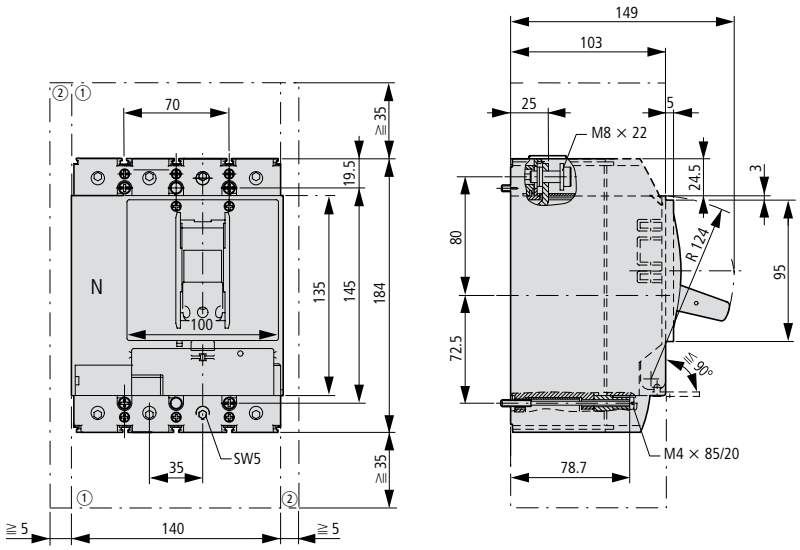
NZMB2
NZMC2
NZMN2
NZMH2
PN2
N2
NS2



① Blow-out area, minimum distance to other parts ≧ 35 mm
② Minimum distance to adjacent parts ≧ 5 mm

4 pole

NZMB2-4
NZMC2-4
NZMN2-4
NZMH2-4
PN2-4
N2-4

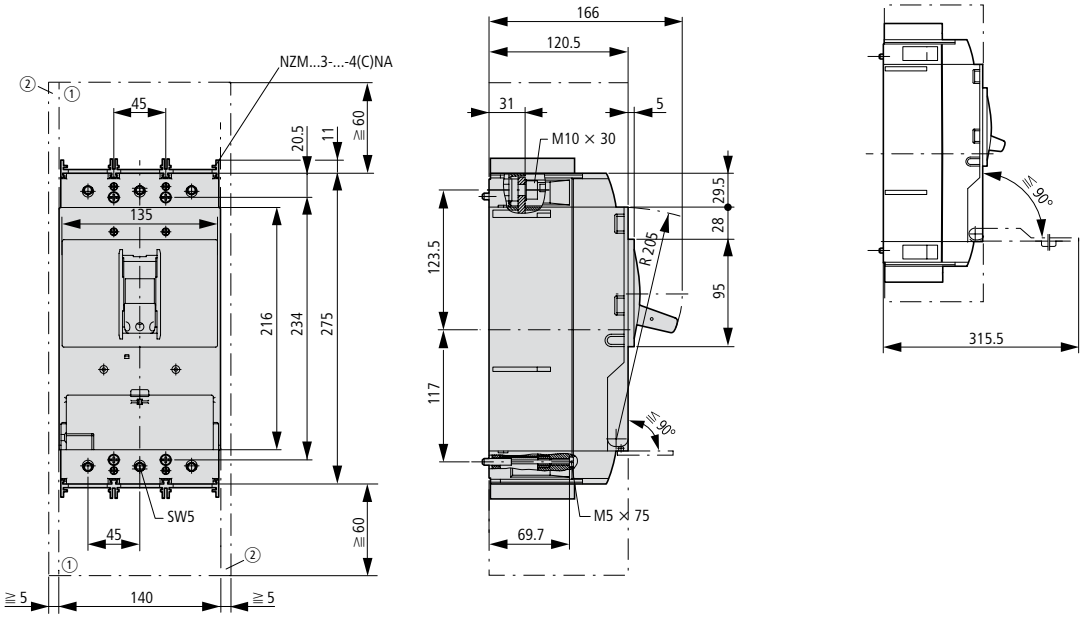


① Blow-out area, minimum distance to other parts ≧ 35 mm
② Minimum distance to adjacent parts ≧ 5 mm

Dimensions (mm)

3 pole

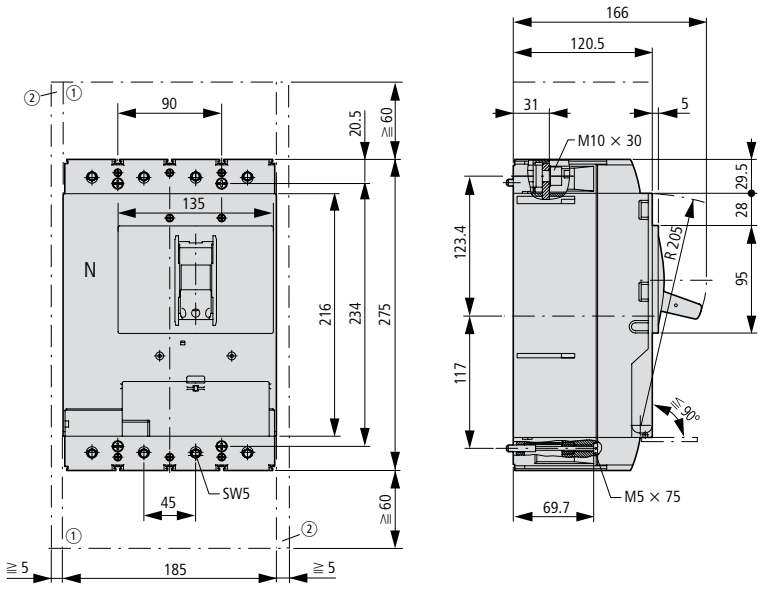
NZMC3
PN3
N3
NS3



① Blow-out area, minimum distance to other parts ≧ 60 mm
② Minimum distance to adjacent parts ≧ 5 mm

4 pole

NZMC3-4
NZMN3-4
NZMH3-4
PN3-4
N3-4

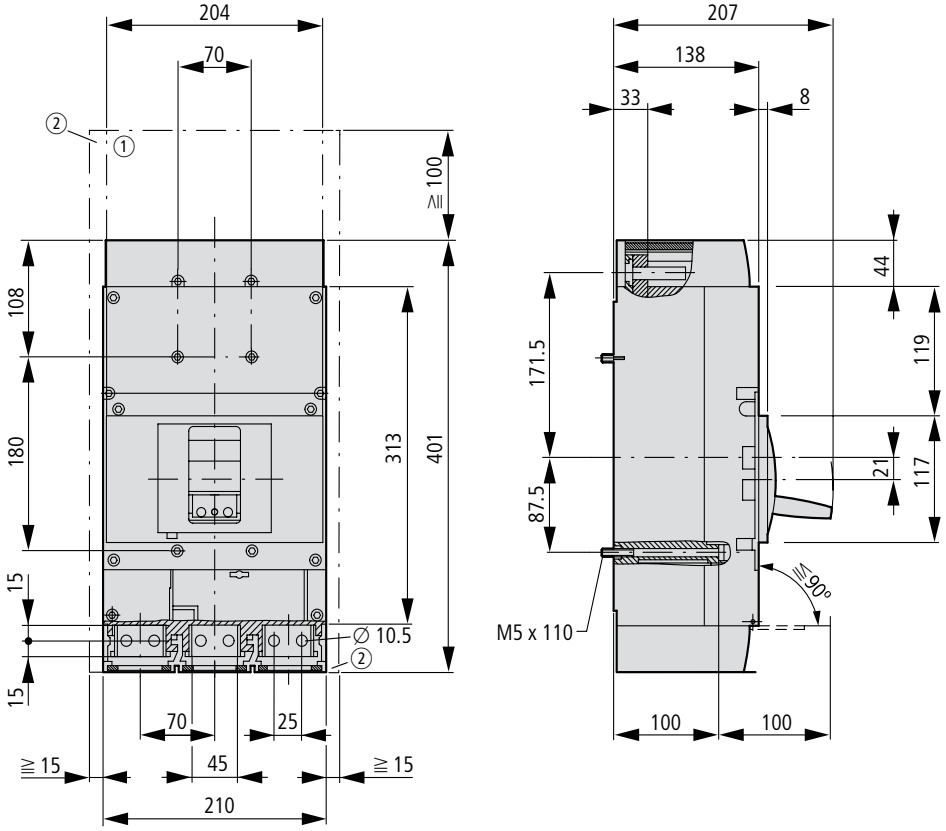


① Blow-out area, minimum distance to other parts ≧ 60 mm
② Minimum distance to adjacent parts ≧ 5 mm

Dimensions (mm)

3 pole

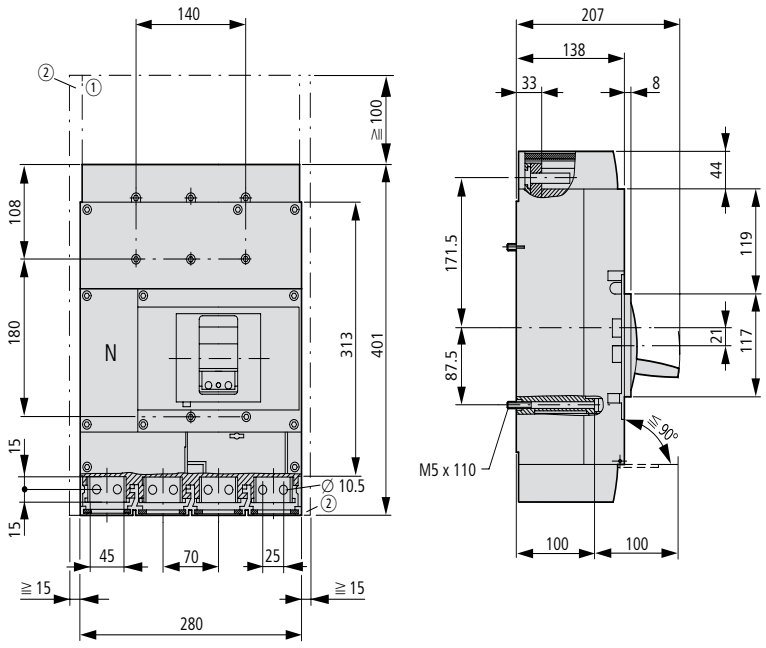
NZMN4
NZMH4
N4
NS4



① Blow-out area, minimum distance to other parts ≧ 100 mm up to 690 V; ≧ 200 mm up to 1000 V
② Minimum distance to adjacent parts ≧ 15 mm

4 pole

NZMN4-4
NZMH4-4
N4-4

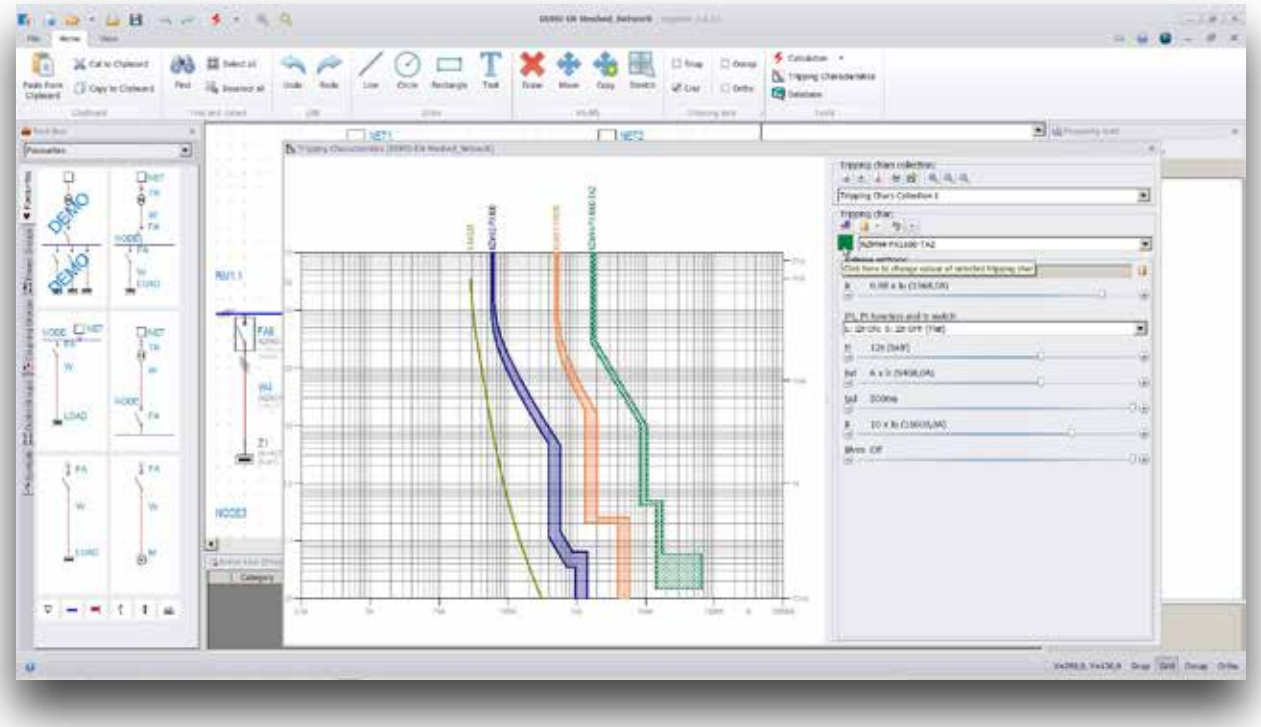


① Blow-out area, minimum distance to other parts ≧ 100 mm
② Minimum distance to adjacent parts ≧ 15 mm

xSpider creates your networks

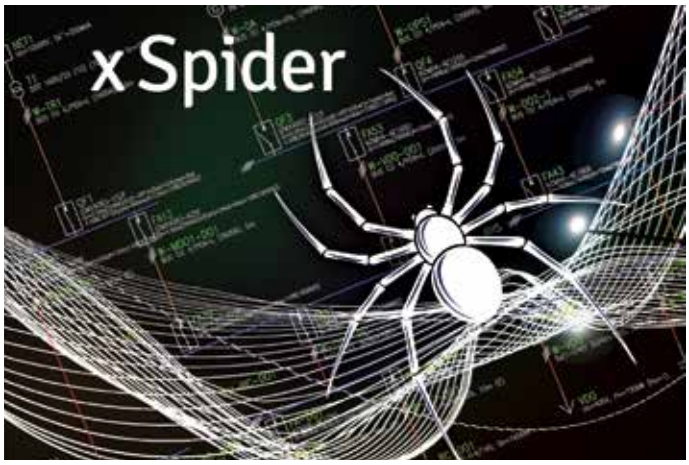
The xSpider software is a graphic-oriented design system for dimensioning of low-voltage networks fitted with Eaton brand circuit protection equipment.

The software is intended primarily for designers and computational engineers. It includes a new graphics and computing core as well as a new user interface.



General Features

- Suitable for TN / IT / TT network systems of different voltage systems up to 1,000 V.
- Design of radial as well as meshed networks.
- Operating status manager for simulating various operating states of the network (ON/OFF status of sources and loads).
- Database of components with transparent tree structure, allowing user-defined additions.
- All calculations are based on IEC standards.
- Coordination of protective devices (selectivity, backup protection).
- Tripping characteristics available for all protective devices.
- Generation of documentation (wiring diagram with calculation results, calculation report etc.).

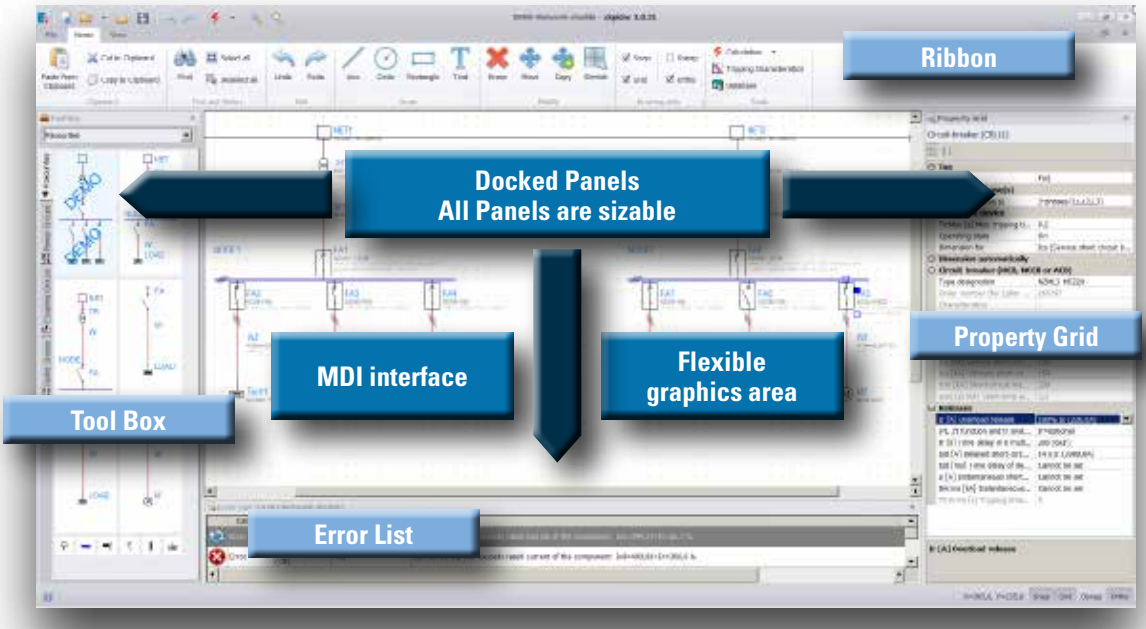


Calculations

- **Voltage drops** in nodal points of the network.
- Load distribution in the network lines.
- Power factor calculation for meshed networks.
- **Three-phase symmetric short circuit** according to IEC 60909.
- Backup protection – checking the breaking capacities of the out-going protective components at the outgoers.
- Selectivity assessment of circuit breakers according to tripping characteristics and selectivity tables.
- **Single-phase asymmetrical short circuit current.**
- Calculation of the disconnection time and check on compliance with the requirements of IEC 60364-4-41.

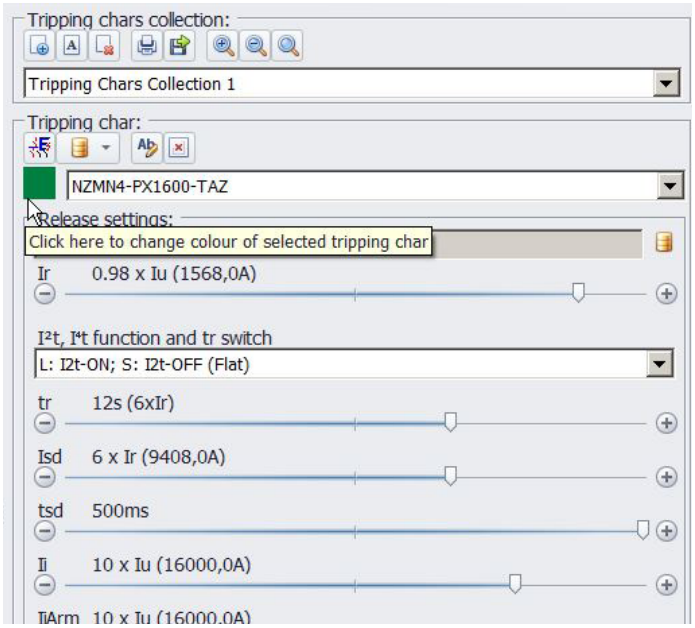
Displaying of results

- Calculation is followed by a display of the list of non-compliant elements (in parallel with the wiring diagram).
- After the calculation has been performed, the calculated values will be displayed for the individual components in the network wiring diagram.
- The results diagram is printable. It can be printed on any output device, for which a driver is available in Windows (printer, plotter).
- After calculation, a comprehensive report on the calculation can be generated and printed.



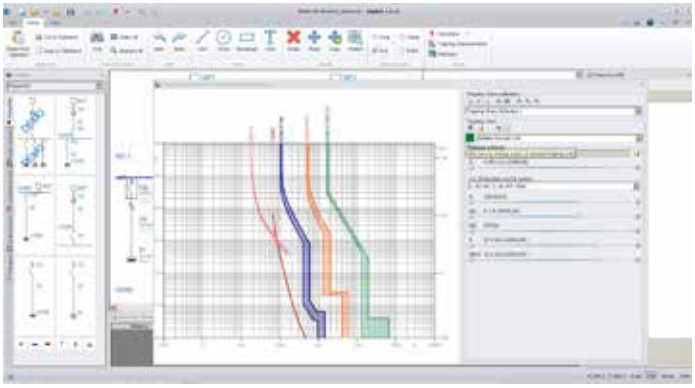
User operation similar to standard CAD systems (AutoCAD)

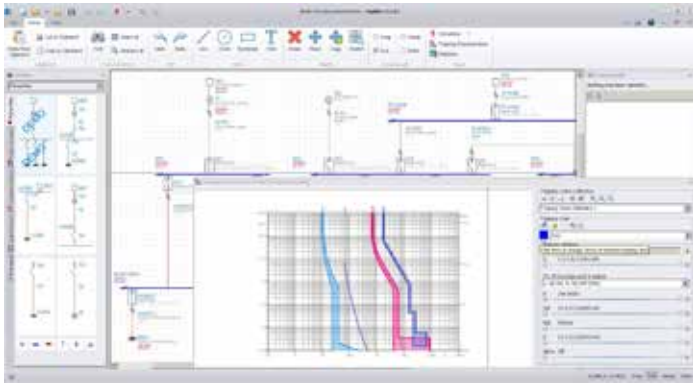
Working with tripping characteristics



Setting of parameters for selected circuit breaker tripping characteristic

- The dialogue box with the tripping characteristics is shown in parallel with the wiring diagram.
- Selection of a protective device from the database and rendering of its tripping characteristic (including tolerance range if the necessary data is available).
- Selection of protective equipment from the network wiring diagram and drawing of its tripping characteristics – selectivity assessment possible.
- If a circuit protection device is equipped with adjustable releases, it is possible to modify all available parameters. If this was a device from the wiring diagram, the change of the release parameter setting is transferred back into the wiring diagram.
- It is also possible to work with the tripping characteristics independently, i.e. without drawing a wiring diagram.


Tripping characteristic of NZM breakers


Tripping characteristic of NZM4 with activated Arc Reduction Maintenance System (ARMS)


Complex evaluation of selectivity and backup protection


Tripping characteristic of NZM breakers with complex evaluation of selectivity and backup protection in the project

How to obtain the xSpider software

Go to the xSpider homepage:

1) www.eaton.com/xspider
2) Search with any explorer (Google) for terms such as: xSpider, or xSpider Eaton etc.

- Download the xSpider software *)
- Installation of xSpider to a computer
- xSpider icon is displayed on the screen – click on it
- Start

*) available also:

- PowerPoint presentations – quick overview of features
- User manual is part of installation or available separately as a PDF file
- Instruction videos help to quickly understand operation.

www.eaton.com/xspider

How to start the first job

The most effective way for quick learning is to start with the selected "DEMO Network" drawing, then look at Videos and follow the User manual, Part III.

1 DEMO drawing

Ready drawings with explanation of basic features. The DEMO drawing contains all basic components and allows immediate work with all xSpider features.

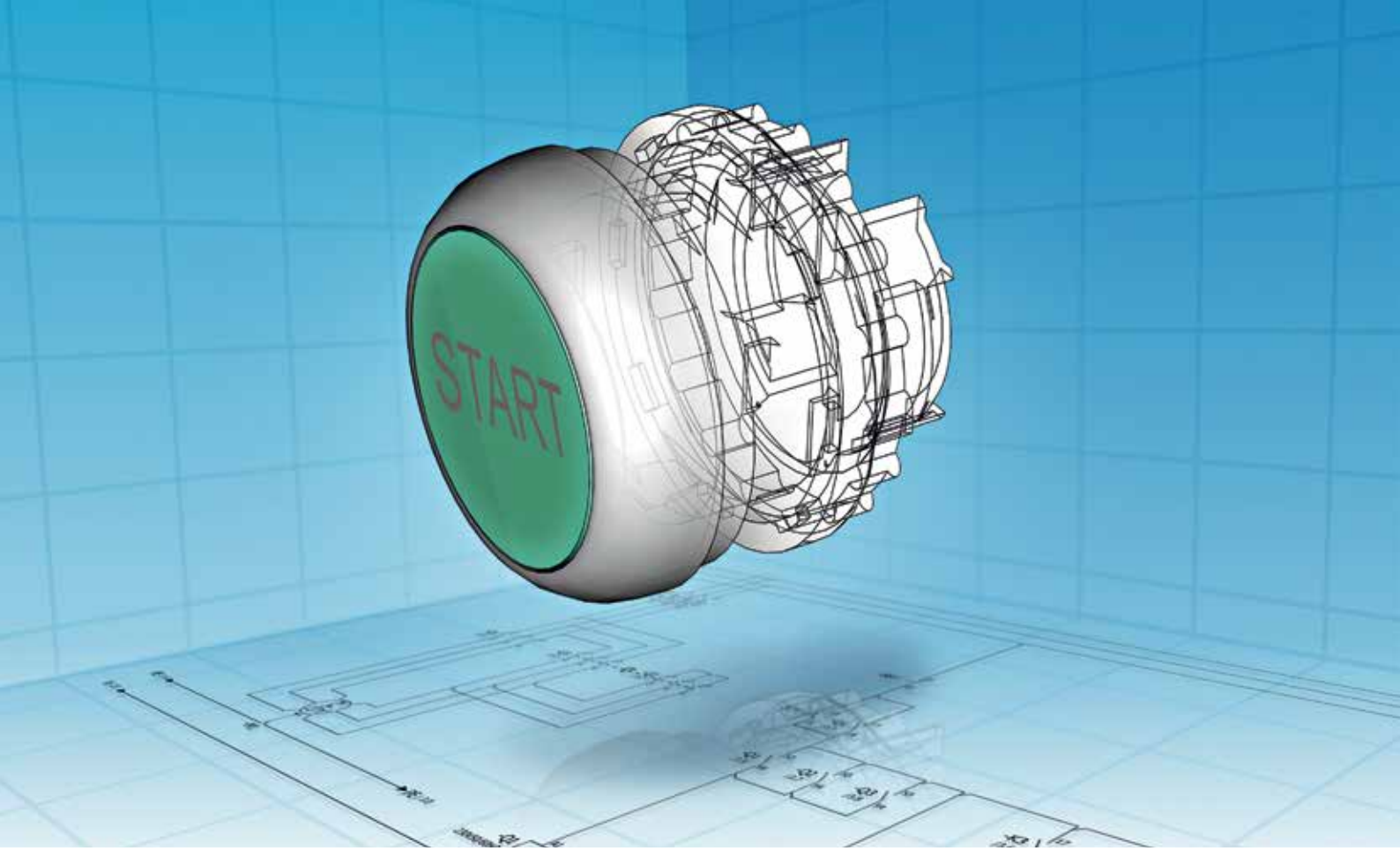
2 Videos

Typical situations in the everyday use of xSpider

3 User manual

Step-by–step explanation in Part III:

Part I: Theoretical Introduction
Part II: Program Operation
Part III: Solved Examples



Planning safety and process optimization: eCAD & mCAD data at the click of a mouse!

- 22,000 article data items and macros
- Download from EPLAN Data Portal
- Available for version P8

- Models for approx. 20,000 products
- 80 different neutral & native formats

Eaton is providing its customers with CAD data to offer optimum support during planning. Both electrical and mechanical design data can be called up quickly and conveniently from the Internet at any time. This reduces processing times, minimizes errors and thus already reduces costs in the engineering phase of control panels, systems and machinery.

eCAD: Eaton has product data and macros for EPLAN Electric P8 available in the EPLAN Data Portal.
More than 22,000 products can be found and downloaded from there.

mCAD: Eaton makes 2D and 3D data available for more than 20,000 products.
Over 80 different neutral and native formats guarantee compatibility with the project engineering systems of the customer. The models can either be integrated directly into the planning software from the Partcommunity Portal on the Internet or via the CADENAS Partsolution software.

www.eaton.eu/cad

Build it in.

Galileo

CODESYS

OPC UA

XV HMI/PLC: Systematic visualization and control

All devices can also be used in portrait format

With the XV system of HMI-PLC touch panels, Eaton offers machine builders and system integrators a coordinated product range that can be precisely matched to various performance classes.
In combination with powerful processors, the intelligent implementation of the PLC runtime as part of a lean and efficient embedded platform strategy leads to modern, scalable and cost-effective automation concepts.
The use of CODESYS programming standard and the comprehensive interfaces illustrate the openness of the system.
Display sizes from 3.5" to 15", plastic and metal versions, and the option of using capacitive, resistive, or infrared touch panels allow for an extremely wide range of applications.
A unique technology: XV panel with integrated SmartWire-DT master interface. The control wiring has been replaced by a single cable, which makes it easy to connect the switching, signaling and operating devices as well as any sensors and actuators outside the control panel.

www.eaton.eu/xv

XV300 – The new face of modern industry

Intuitive user guidance, precise gesture control, multimedia integration - industrial applications that offer the same ease of use that we have come to expect from smartphones and tablets.

The new XV300 panels with capacitive multi-touch or infrared technology are not only easy to operate, but are also redefining the possibilities of human-machine interaction. Modern, high-resolution devices that meet your needs - even in harsh industrial environments.

General features

- Can be used either in portrait or landscape mode
- Removeable SD card
- Interface combinations: 1 or 2 Ethernet interfaces 10/100Mbps, CAN, PROFIBUS-DP/MPI
- SmartWire-DT, RS232, RS485
- Integrated web server
- HMI / HMI/PLC functionality
- High system performance and a powerful graphics processing unit
- PLC function programmable with CODESYS V2 and V3
- Visualization vie GALILEO, CODESYS or Visual Designer
- UL approval
- Marine approval for the 7" and 10" XV-303/313 devices

XV-303

- Capacitive multi-touch panel for front mounting
- Display sizes 7", 10.1" and 15" in 16:9 format
- Flat front panel made from non-reflective tempered glass
- Plastic housing
- Interfaces: 1 or 2 x Ethernet, 1 x CAN, 1 x RS232, 1 x RS485
- Optional: 1 x Profibus-DP, SmartWire-DT

XV-313

- Capacitive multi-touch panel for rear mounting
- Display sizes: 7" and 10.1" in 16:9 format
- Flat front panel made from non-reflective tempered glass
- Plastic housing with aluminum bezel
- Flush-mounted, resulting in a flat surface without any sharp edges
- Interfaces: 1 or 2 x Ethernet, 1 x CAN, 1 x RS232, 1 x RS485
- Optional: 1 x Profibus-DP, SmartWire-DT

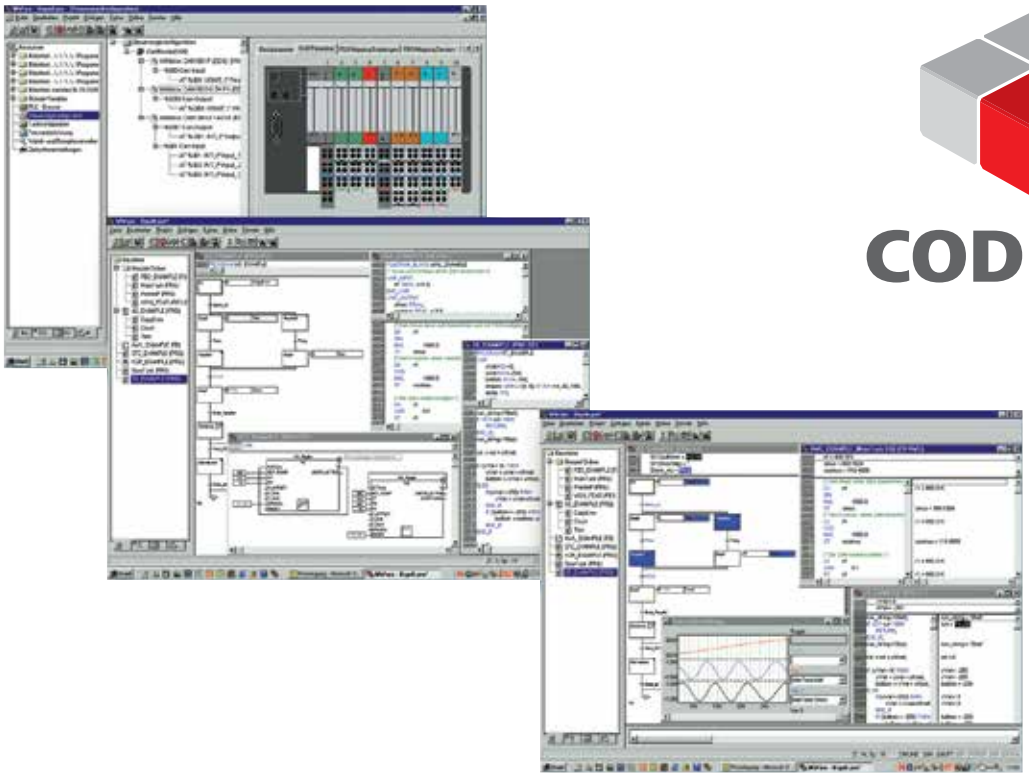
XV-363

- Infrared touch panel for front mounting
- Display sizes: 5.7", 10.4" and 12.1" in 4:3 format
- Laminated safety glass, non-reflective
- Metal housing with aluminum bezel
- The dimensions are identical to those of the XV(S)400 series
- PLC function can be added later by means of Y7-181585 (LIC-PLC-A)
- Communication options: 2 x Ethernet, 1 x CAN, 1 x RS232, 1 x RS485
- Optional: 1 x Profibus-DP

SmartWire-DT on board

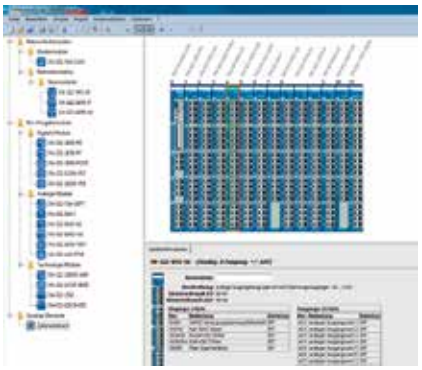
SmartWire-DT is an integral component of Eaton's automation concept, which is characterized by flexible solutions with fewer components and less engineering: SmartWire-DT supports the integration of the communication and I/O level directly into the control, display and switching devices. In addition to executing control commands, the PLC can thus directly access digital and analog data, from sensors all the way to circuit breakers. This eliminates the need for a separate gateway and I/O layer.

Build it in.



CODESYS

XSOFT-CODESYS – PLC programming to international standards



Software tools simplify both project execution and commissioning:

- XN300 Assist
- I/O-Assist
- SWD-Assist

Download free of charge at
www.eaton.com/software

www.eaton.com/codesys

CODESYS is a programming system based on the 3S' CODESYS standard. And with its sophisticated technical features, ease of use, and popularity as a programming system for automation components from a wide variety of manufacturers, it is no surprise that it has become the system of choice for many a successful company. Eaton offers both **CODESYS Version 2** and **Version 3**, and most XV/XC controllers can be programmed with either version.

CODESYS is the ideal programming tool for applications in which a powerful PLC or HMI PLC with various field bus connections is required. The reason why is its integrated field bus configurators for PROFIBUS, CAN, SmartWire-DT, Modbus TCP/RTU (in Version 3), and EtherNet/IP (in Version 3), which make it possible to quickly, intuitively, and easily connect devices to the field bus of your choice. In short, the software is the ideal programming tool for all machine and process-relevant applications in mechanical and plant engineering environments.

SWD-Assist	I/O-Assist	XN300 Assist	CODESYS-3-Webvisu	CODESYS-3	CODESYS-2 Webvisu	CODESYS-2	
●[3]			●	●	●	●	XV-102-B/-D/-E-…
			●	●	●	●	XV-112…
●[3]			●	●	●	●	XV-152…
●[3]			●	●	●	●	XV-3x3-…
			●	●	●	●	XV(S)-4…
●[3]			●	●	●	●	XC-152-…
			●	●			XC-303
			●	●	●	●	XC-CPU202-…
					●	●	XC-CPU201-…-XV
						●	XC-CPU201-/101-…
						●	XC-CPU121
						●	EC4P-…
	●					●	XN-PLC-CANOPEN
		●		●		●	XN-312-GW-CAN
	●			●		●	XNE-GWBR-…
	●			●		●	XN-GWBR-…

[3] for devices with SmartWire-DT interface

Maximum flexibility

CODESYS is the programming tool for all Eaton XV/XC controllers. It enables users to program systems as per IEC-1131-3 with the following programming languages: instruction list (IL), ladder diagram (LD), function block diagram (FBD), sequential function chart (SFC), structured text (ST), continuous function chart (CFC).

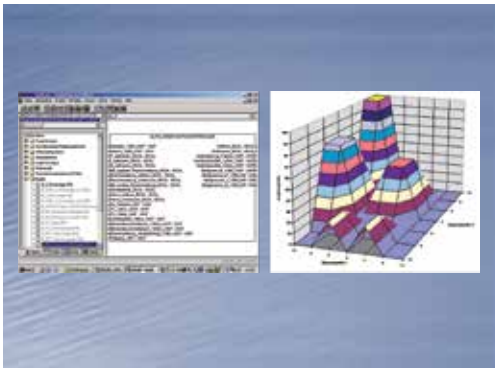
Eaton offers targets for the XV100, XV400, XVS400, XC-152, and XC-CPU202 automation systems both for CODESYS V3 and CODESYS V2, meaning that the same hardware can be used in new (configured with CODESYS 3) and existing (programmed with CODESYS 2) machine generations.

Multitasking

The structuring of the application into several user-defined runtime programs (multitasking) optimizes your PLC's resources and simplifies the implementation of time-critical requirements. This gives high-speed processes priority and slower processes as much processing time as necessary.

Web visualization

XSOFT CODESYS can generate an XML description based on visualization information. In CODESYS V2, this description will be stored on the controller together with a Java applet. In CODESYS V3, HTML5-based pages (CODESYS V3) will be generated instead. These pages can then be displayed on a browser via TCP/IP.



Application libraries

Eaton Automation offers several ready-to-use libraries for programming PLCs with XSOFT-CODESYS for a wide range of applications:

- Control technology toolbox
- Motion control toolbox
- FTP server
- FTP client
- UDP and TCP/IP
- Modbus RTU/TCP master/slave
- OS functions
- File handling

XSOFT CODESYS Version 3 features:

- A programming tool that can be expanded using plugins to handle customer-specific adaptations
- Expanded language options (object-oriented programming)
- Know-how protection for targets and the programming tool
- Multiple PLC programs in one project
- New and improved TargetVisu functions
- Improved IT safety functions
- Websites based on HTML5
- Field bus configurations: Modbus TCP/RTU, EtherNet/IP
- SAE J1939 protocol

Functional safety to protect people, machines and the environment

Safety Technology
Control the unexpected

Throughout their entire life cycle, machines pose risks to people, other machinery and the environment. For this reason, it is vital to identify any hazards during the design phase of the machine and to reduce them by taking appropriate measures.

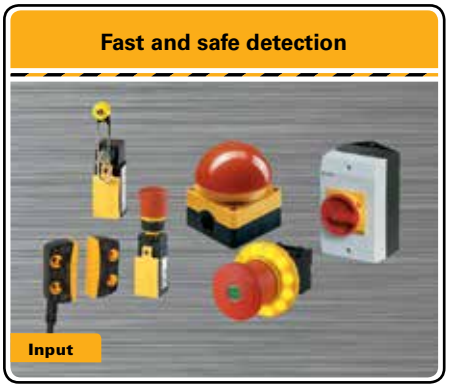
The Machinery Directive 2006/42/EC stipulates that machines should not pose any danger. However, as there is no such thing as 100 % safety in engineering, the objective is to minimize dangers and to achieve tolerable levels of residual risk. The overall safety of a machine defines the state in which it either poses no unacceptable risks to people or can be considered hazard-free. Functional safety refers to the part of the overall safety of a system which depends on the correct functioning of the safety-related systems and the external risk-reduction devices.

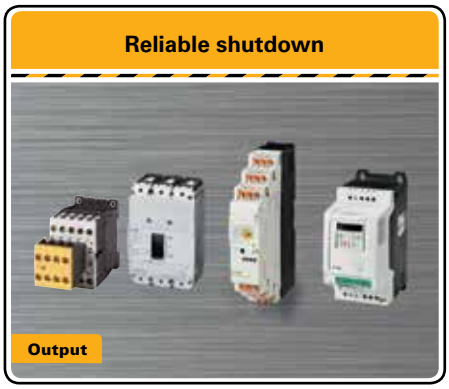
www.eaton.eu/fusi

Risk reduction through the use of safety-related parts in control systems

In international standards, the safety components of machine controls are referred as to "safety-related parts of control systems" (SPR/CS). Safety-related control components cover the entire functional chain of a safety function. In each case, they consist of the input level (sensor), the integrated logic (safe signal processing) and the output level (actuator).

The general objective is to design these components in such way that the control functions reduce the level or risk in line with the results of the risk analysis, even in the event that the control system malfunctions. The higher the level of risk reduction that the safety-related parts of a control system need to achieve, the higher the required safety level/technical safety performance level.



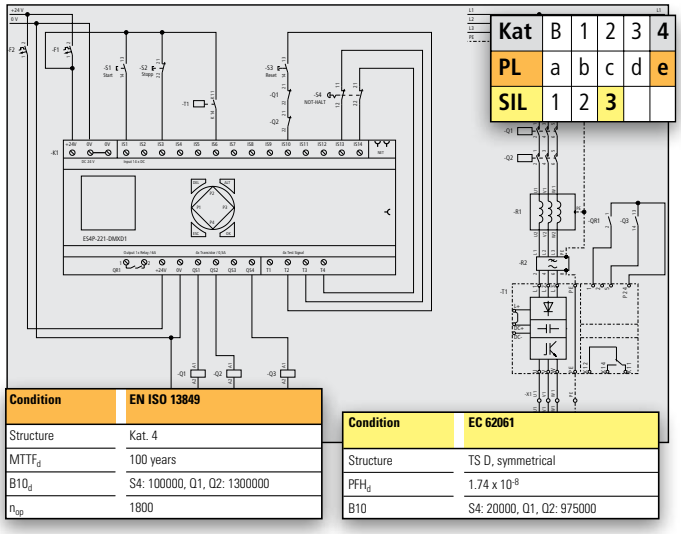


Safety Manual for machines and systems in accordance with EN ISO 13849-1 and IEC 62061

Information about machine safety can be found in Eaton's "Safety Manual", which is aimed at machine builders and system integrators, as well as at teachers and students and anyone else who is interested in the topic.

This manual provides an introduction to the comprehensive literature on safety technology. The Eaton Safety Manual provides an overview of the interplay between the relevant directives, standards and regulations that must be taken into account when designing safety equipment for machines. The safety-related contents of this manual have been certified by TÜV Rheinland Industrie Service GmbH.

Based on example circuits, the manual shows how functional safety can be implemented in safety applications by means of electrical, electronic and programmable components and systems.



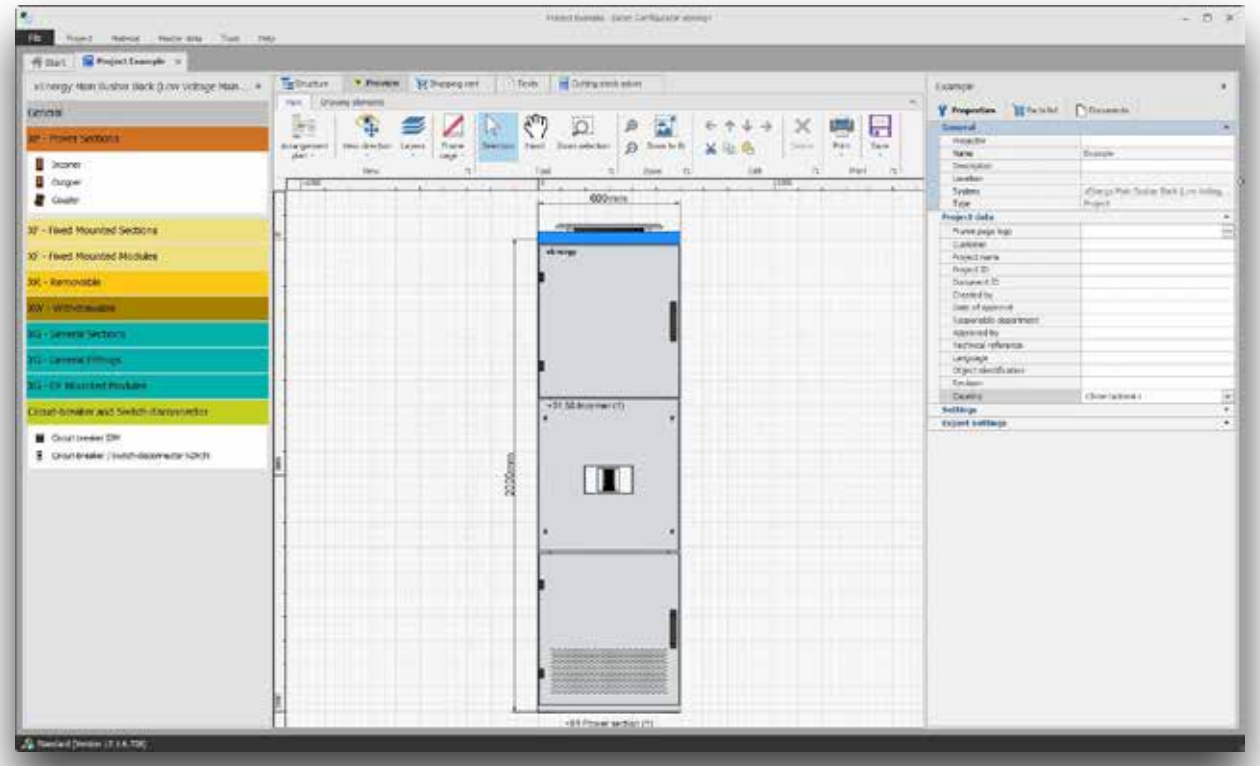
In addition, the Safety Manual also describes the functioning of each example circuit and contains a clear overview of the possible evaluations.

The calculated variables are based on standard assumptions about the safety applications and safety-related switchgear being used.

Register now at www.eaton.eu/shb to download our Safety Manual free of charge.

The safety-relevant variables for our products are available at www.eaton.eu/fusi

Eaton xEnergy configurator



Eaton's xEnergy configurator is a pricing and configuration software that enables panel builders to design and calculate the cost of low-voltage switchgear assemblies using Eaton's xEnergy enclosure families and IZM and NZM circuit breaker families.

www.eaton.com/configurator

Main features

Distribution board configuration
- Fast and reliable configuration of distribution boards systems and circuit protection devices.
- Define technical properties with continuous validation check.
- Function-oriented dimensioning of the distribution board by means of neutral properties.
- Optional transfer of the configured distribution board to ProPlan (detail engineering).

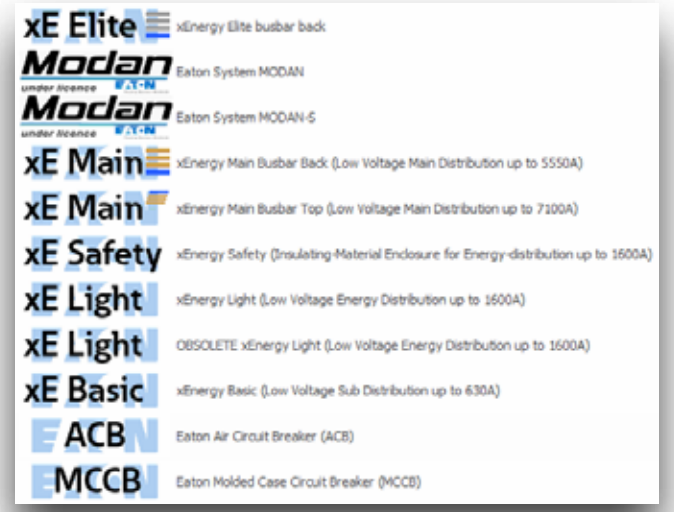
Preview
- View of the distribution board from different directions.
- View of sections, modules and busbars including dimensioning and drawing sheet.
- Move components via drag/drop.
- Export as DXF file.

Part lists
- Expandable with any user defined material (including material from "MatClass").

Documentation
- Access to xEnergy assembly manuals and installation instructions.

Shopping cart
- As structure and summary parts list.
- Includes the calculation of metal surcharges.
- Considers exchange rates.
- Export to Microsoft Excel.
- Includes recommendations for additionally required busbar material (copper lengths).

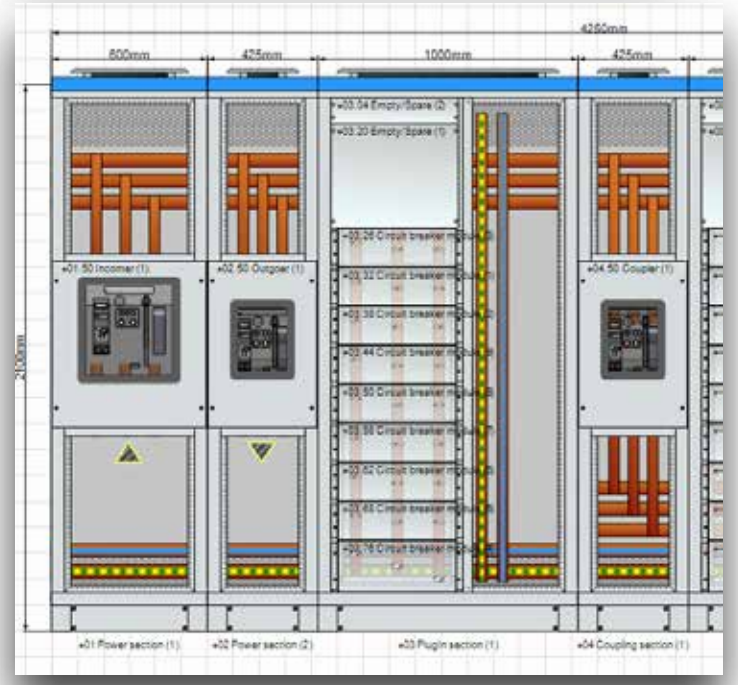
Configurator contents



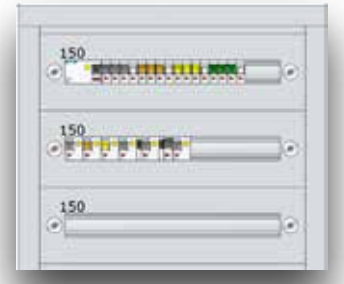
The xEnergy configurator allows you to price and design Eaton switchgear for your project within minutes.

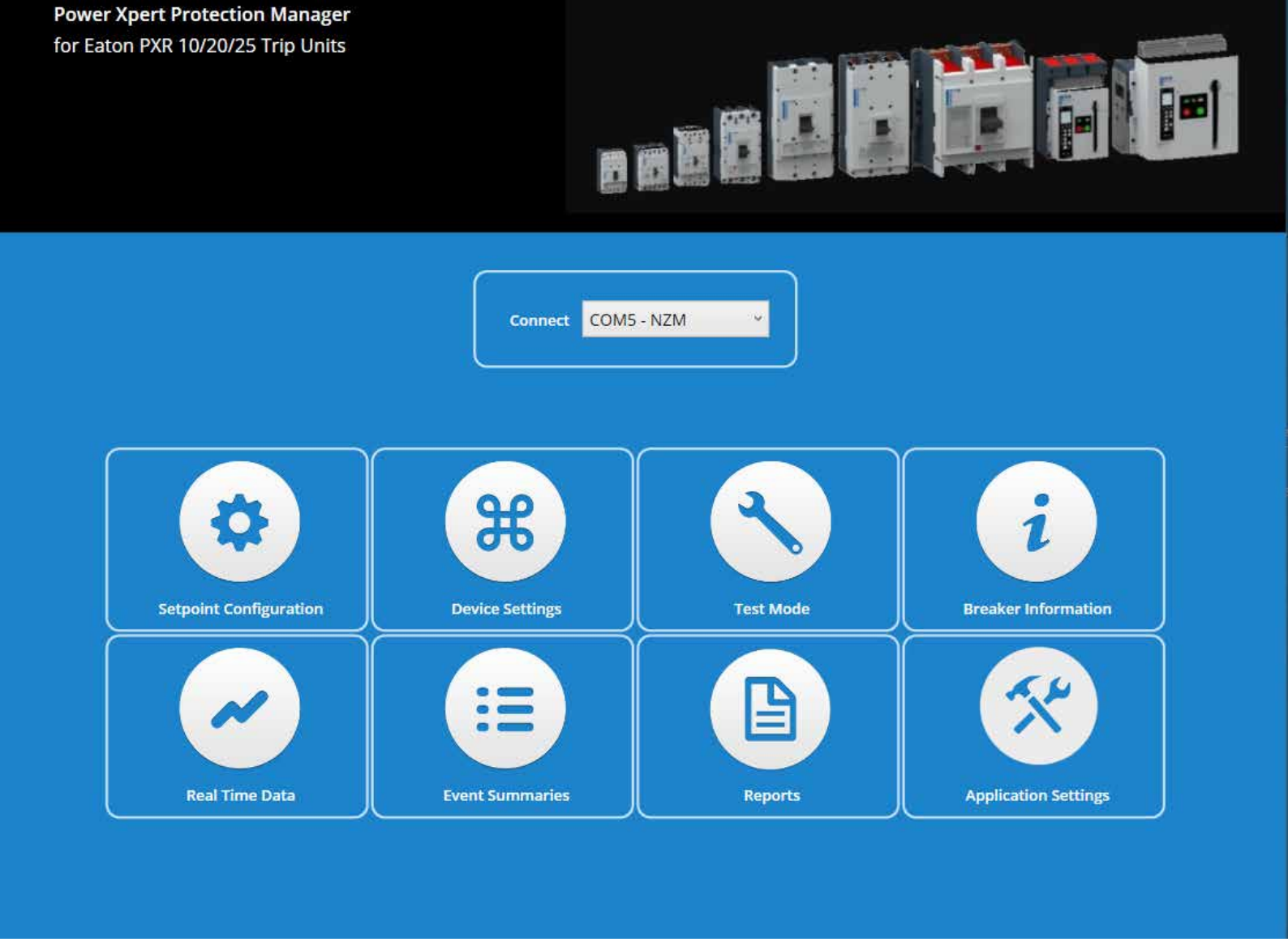
Use Eaton's xEnergy configurator to design the following types of circuit breakers and low-voltage switchgear systems and calculate their costs:
- xEnergy **E**lite and Modan S
- xEnergy **M**ain
- xEnergy **S**afety
- xEnergy **L**ight
- xEnergy **B**asic

- IZM air circuit breakers
- NZM and PDE molded-case circuit breakers



You can generate both a bill of materials (for steel work, device fitting kits and circuit breakers) as well as an individually adjustable front view for the creation of quotations. A suitable distributor is automatically recommended based on the chosen system function.
Within the low-switchgear assemblies, all types of switchgear can be placed and configured:
- Air circuit breakers
- Molded case circuit breakers
- Miniature circuit breakers
- Residual current circuit breakers
- Residual current circuit breakers with overcurrent protection
- Control and monitoring devices





Power Xpert Protection Manager

Power Xpert Protection Manager Main Menu

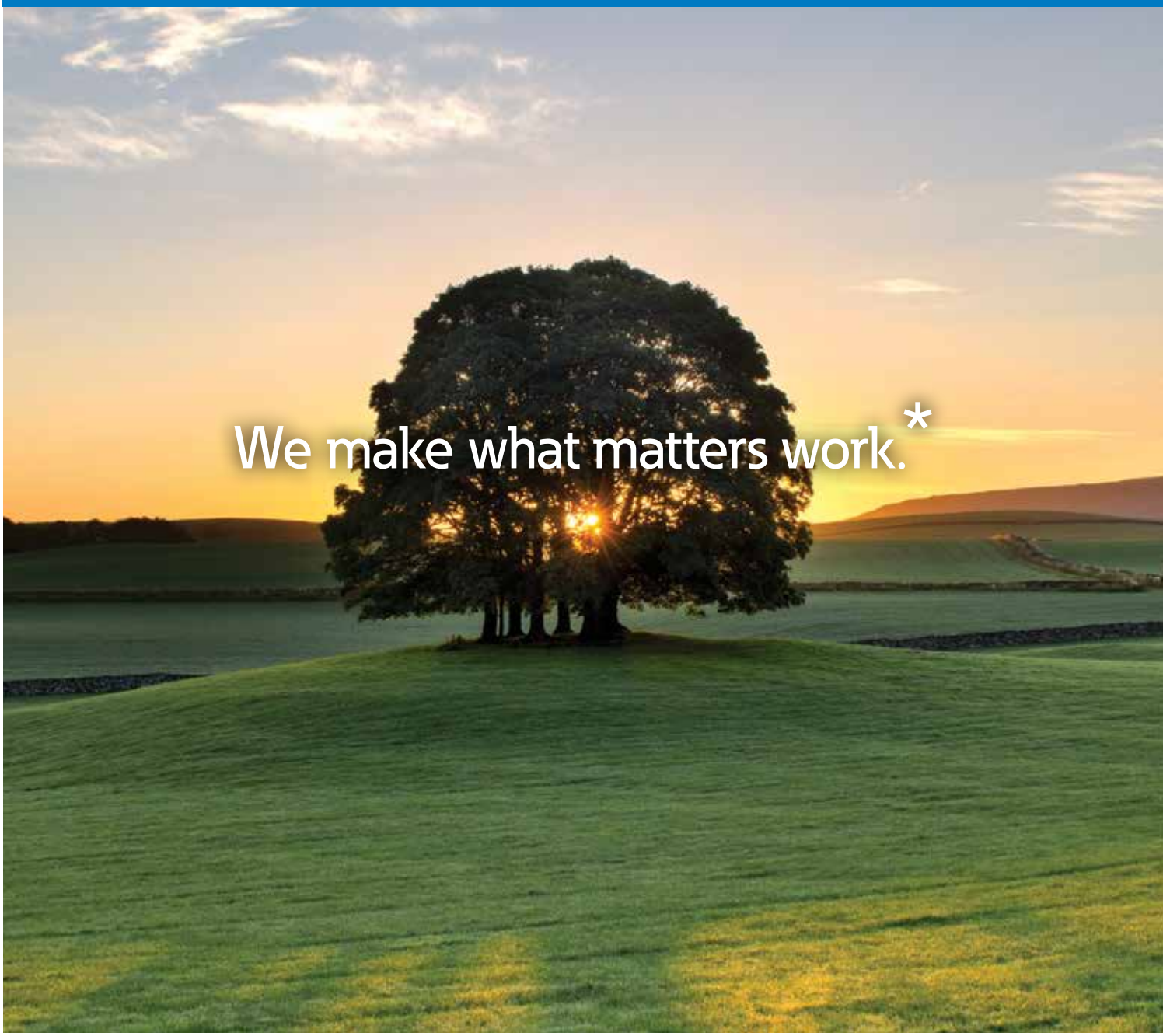
Eaton's Power Xpert Protection Manager (PXPM) provides a clean, intuitive user interface enabling unmatched control, testing, and troubleshooting. The software is free to download and can run on any PC. Settings and tests are communicated to trip units via USB or through connected networks, no special test equipment is required. Troubleshooting is greatly simplified through the use of historical event summaries and real-time data provided by the Power Xpert Release (PXR) trip units. This helps customers to save time and money.

- Eaton's software helps simplify testing, serviceability and customization – yielding significant time and labor savings.
- An enhanced user interface enables engineers to remotely view and adjust the trip unit settings.
- Real-time data: Provides status information and metered data directly from the trip unit.
- Event summaries: Stores up to 200 events, detailed information on most recent (10) trip and (10) alarm events, and time adjustments to the real-time clock.

www.eaton.com/PXPM

Features

	Setpoint Configuration	- Provides full breaker configuration - Online as well as offline - Offline parameter files
	Device Settings	- Parameter reset - Min/max values etc. - Set date and time - Change password of trip unit - Password is required to change sensitive settings - Required for change of protection settings
	Test Mode	- Perform test features - "Open breaker" – test
	Breaker Information	- Provides breaker information details - Trip unit serial number - Trip unit catalog number - Trip unit manufacturing date
	Real Time Data	- Provides "online" real-time data - Status, currents, voltages, power - Energy, power demand, min/max values - Diagnostic data
	Event Summaries	- Provides event summary and detailed information - Event summary - Trip events in detail - Alarm events in detail - Time adjustments
	Reports	- Provides reports as PDF of - Breaker information - Real-time data - Event summary - Setpoint
	License	- Some features may require a license - License will be connected to specific computer (Hardware identifier) - Provides future possibility to download further trip unit language packs - Standard languages - EN, DE, CN - Other languages FR, ES, IT etc



* At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

To learn more go to: Eaton.com/whatmatters

We make what matters work.

Eaton's mission is to improve the quality of life and the environment through the use of power management technologies and services. We provide sustainable solutions that help our customers effectively manage electrical, hydraulic, and mechanical power – more safely, more efficiently, and more reliably. Eaton's 2020 revenues were $17.9 billion, and we sell products to customers in more than 175 countries. We have approximately 92,000 employees.

For more information, visit **Eaton.com.**

For contact information, please go to
https://www.eaton.com/us/en-us/support/international-support-contacts.html
Please contact your local Eaton sales team about any questions.

UAE

Middle East Headquarters
Eaton Electric
Dubai World Trade Center
Level 16, P.O.Box 9398
Dubai, United Arab Emirates
Tel: + 971 4 331 3938
Fax:+ 971 4 332 9239
Email: salesoffdubaiuae@eaton.com

Eaton Electric Manufacturing
Middle East LLC
Mussafah Offshore Base
P.O.Box 42278, Abu Dhabi
United Arab Emirates
Tel: + 971 2 554 9544
Fax:+ 971 2 554 9599

Eaton Dubai Distribution Centre (DDC)
BB03-BB04 South Zone 5
Jebel Ali Free Zone
P.O.Box 261768, Dubai
United Arab Emirates
Tel: + 971 4 880 9455
Fax:+ 971 4 880 9655

Qatar

Eaton Electric
Al Emadi Business Centre
Office no. 10, P.O.Box 32522, C Ring Road
(Next to Gulf Cinema Signal)
Doha, Qatar
Tel: + 974 4467 4273
Fax:+ 974 4466 7134

Kuwait

Eaton Electric
Shayma Tower
Mezzanine Floor
Omar Bin Al Khattab Street
Sharq, Kuwait
Tel: + 965 22263606/7
Fax:+ 965 22253608

Oman

Maktabi Building, Ground floor
Office No. 15
PO Box: 1982. PC:111 CPO
Near Zaker Mall, Al Khuwair
Oman.
Tel : +968 24391973
Fax : +968 24483801

Saudi Arabia

Eaton Corporation
Saad Trading & Commercial Center
1st Floor, Office #9
Olaya Main Street
P.O.Box 19561, Riyadh 11445
Saudi Arabia
Tel: + 966 1 4602275 / 4602066
Fax:+ 966 1 4602291

Eaton Corporation
Kanoo Airline Centre, 3rd floor
Dammam-Khobar Highway
P.O.Box 620, Al Khobar 31952
Saudi Arabia
Tel: + 966 3 882 5424
Fax:+ 966 3 882 5732

Eaton Corporation
Al Nassar Trading & Housing Centre
Office no 305 - P.O.Box 6870
King Fahed Road (Al Seteen Road)
Aziziah Area, Jeddah 21452
Saudi Arabia
Tel: + 966 2 667 9750
Fax:+ 966 0 661 2607

Lebanon

Eaton
Beirut Regus Solidere 614
Azarieh Building
Azarieh Street, Block 03, 5th Floor
P.O.Box 11 – 503, Beirut, Lebanon
Tel: + 961 1 964 559
Fax: + 961 1 964 501

Jordan

Eaton FZE
Al-Hussainy building
Al Hajar Al Aswad Complex
Al-Haramien Intersection , 3rd Floor
Office #306, Amman, Mekka Street
Jordan
Tel: + 9626 537 1429
Fax:+ 9626 551 5749

Iraq-Erbil

Setaqan St. - near said Gharreb mosque
No. 110/1339
Mob:+964 750 333 0 900
Mob:+964 750 492 0 300

Goran - Makhmoor road
Mob:+964 750 666 0 900
Mob:+964 750 222 0 900

Eaton Industries (Austria) GmbH
Scheydgasse 42
1210 Vienna
Austria

Eaton
EMEA Headquarters
Route de la Longeraie 7
1110 Morges, Switzerland
Eaton.com

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