Moulded Case Circuit Breaker

BZM MCCB Range







Product Information

Circuit Breaker BZM1(16 to 125 A)

Circuit Breaker BZM2 (125 to 250A)

Circuit Breaker BZM3 (250 to 400A)

BZM1 & BZM2 & BZM3 Accessories



Optimum and Efficient Protection for Every Application



50 kA
36 kA
25 kA
18 kA
15 kA

Compact

Simple

Safe

The new BZM

Eaton is a synonym for innovation, product quality, reliability and decades of experience in the electrical engineering industry. Our products comply with the latest national and international standards and regulations.

Our Circuit Breaker Division takes pride in expanding the range of circuit breakers by adding the new BZM series designed for the lower LV segment and featuring factory-set thermal and magnetic tripping values. With our new BZM series we offer compact circuit breakers and a wide range of accessories for your business applications in all kinds of trade and industry. Easy handling, enhanced capacities and proven quality in the attractive Eaton design are additional features of this product.

With the BZM1 for up to 125 A, the BZM2 for up to 250 A and the BZM3 for up to 400 A. Eaton now also completes its range of products in the segment of circuit breakers, allowing us to cover all kinds of applications and requirements.

Protect your electrical system and cables with our new BZM!

Three Advantages for Your Benefit

Compact

Unbeatable when it comes to saving space: In the range of circuit breakers, the BZM1, BZM2 and BZM3 are among the slimmest in their class and can therefore use the valuable distribution space most efficiently, regardless of whether they are used for energy sub-distribution or as a protection for incoming power in residential or functional buildings.

Simple

Easy to handle:

For a fast starting are thermal and magnetic tripping values already fixed.

The BZM series is absolutely easy to handle and allows for quick installation when executing your jobs.

Safe

Eaton's switchgears have a worldwide reputation for being the benchmark in low-voltage power distribution. Eaton's quality protects people and assets against short-circuits and overload, with the BZM series being designed for the 16 to 400 A range in sub-distribution.

Standards

In complying with the IEC/EN 60947-2 standards and pollution degree III (IEC/EN 60947) we not only ensure the material but also the immaterial values of the BZM circuit breaker series. And with our BZM series, we also show consideration for the environment as these circuit breakers conform to the RoHS directives and can be recycled to a large extent. And last but not least - the stylish outfit of the BZM series in the distinctive Eaton design makes these products attractive not only from a technical but also from an aesthetic point of view.

For more information please turn to page 21. (technical data page).

Compact



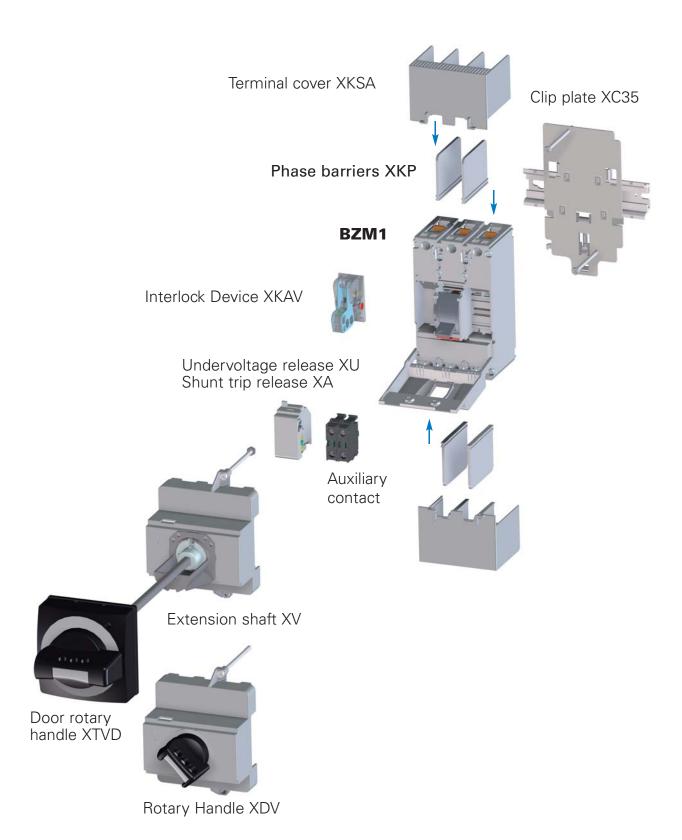
Simple



Safe



Range Overview BZM1



BZM1 - Small is Powerful

· Concentrated technology with a long lifespan

The BZM1 provides protection with rated currents **up to 125 A** and **36 kA** breaking capacity, despite its light weight and slim width of only 25 mm per pole. The star within the circuit breaker family, is available as a **1, 2, 3 or 4-pole** device. For a fast starting are thermal and magnetic tripping values already fixed by Eaton. And it has an extremely long lifespan of up to 10,000 mechanical operating cycles. In addition, thanks to its terminal cover, the BZM1 features an IP 10 degree of protection.

Multiple mounting options

Upside-down or horizontal? It is up to you how you wish to mount the BZM1. But regardless of the mounting position and the side you choose for the supply of power, it will always provide the full protective function.

- Cable Fixing: Cable lug and box terminal
 The proven cable lug with M6 screws and the box terminal technology for quick and easy mounting (BZM1...-BT): both are included in the standard range of products.
- Solutions made to measure

Remote tripping, signalling the switching status or undervoltage releasing in case of security relevent applications - all of this is easy to manage for the BZM1. Thanks to the comprehensive range of accessories, the BZM1 will not only be the perfect match for standard applications, but also the ideal solution for individual handling requirements.

Upon request the BZM1 is also available with a rotary handle (for direct mounting or door coupling).

Characteristics / Features

Rated current: 16 A up to 125 A Breaking Capacity: 15, 18, 25, 36 kA

Cable fixing: Cable lug M6 or Box Terminal

(BZM1...-BT)

Available poles: 1pole, 2pole, 3pole, 4pole Rated Voltage: up to 400/415V, 50/60Hz

3-Position lever: Off - Trip - ON Electrical Supply: Line or Load-Side

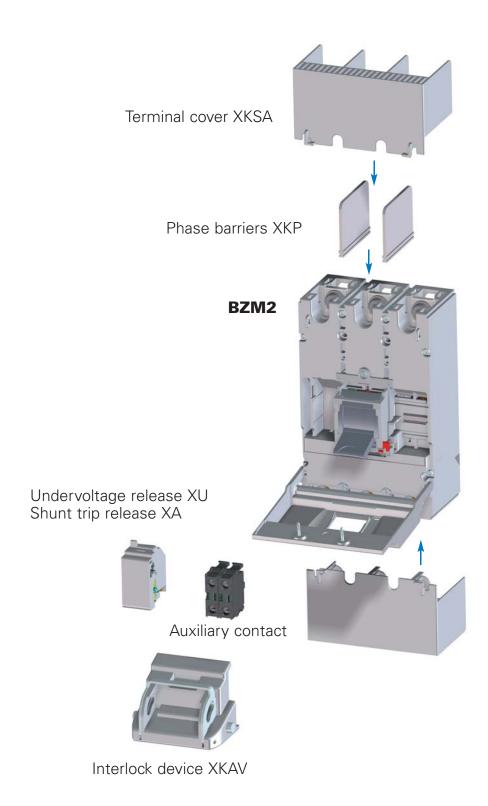
BZM1



BZM1... -BT



Range Overview BZM2



BZM2 - Excellent Protection for High-Rated Current Requirements

· Technology brought to the point

Eaton's new BZM2 keeps a watchful eye on **rated currents** ranging **from 125 to 250 A** and a breaking capacity up to **36 kA**: it impresses especially with its functionality and robust design.

The **3-pole** version (size $W \times D \times H$: 105 \times 91.5 \times 165 mm) with a lifespan of 8,000 mechanical operating cycles makes it a powerful protective device in a compact format.

· Perfect adjustment to any environment

Standard position, horizontal or upside-down: you can select the mounting position just as freely as the side for the incoming power supply.

· Conventional connection via cable lug

In line with the common practice for this type of rated current, the connection is established through a **cable lug** and M8 screws.

· Accessories in Eaton style

Upon request and in our usual manner, we provide clever accessories such as auxiliary contacts, shunt trip releases, undervoltage releases; interlock device or terminal covers.

The BZM2 is a specialist in the higher range of rated current and offers everything you could want in terms of reliability, easy handling and compact design!

Characteristics / Features

Rated current: 125 A up to 250 A

Breaking Capacity: 25, 36 kA Cable fixing: 25, 36 kA Cable lug M8

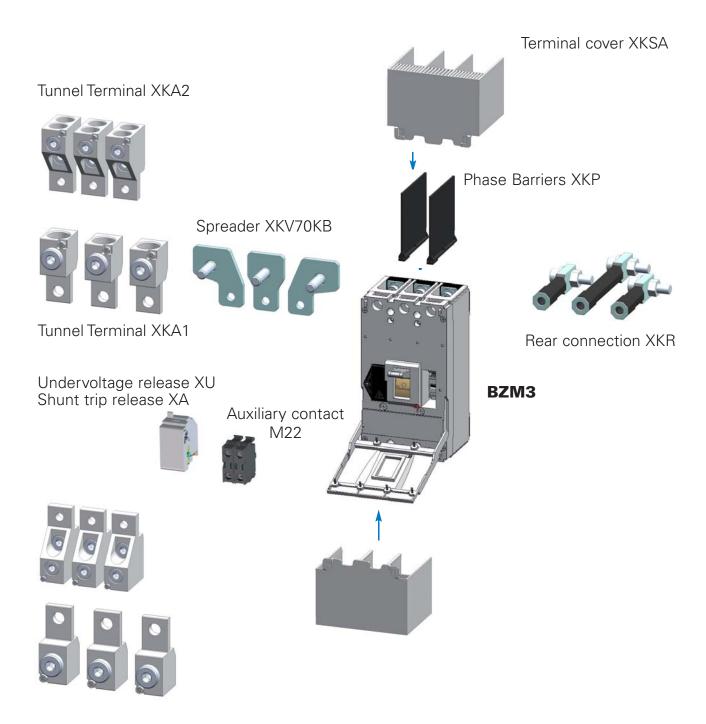
Available poles: 3pole

Rated Voltage: 400/415V, 50/60Hz 3-Position lever: Off - Trip - ON Electrical Supply: Line or Load-Side

BZM2



Range Overview BZM3



BZM3 - the perfect high current solution

• Strong ratings combined with compact dimensions
The new BZM3 products are the most powerful Circuit
Breaker within Eaton's BZM product range. The rated current is ranging from 250 up to 400 A and a maximum
breaking capacity of 50kA / 415VAC and 36kA /440VAC.
Eaton's BZM3 products - the prefect solution for your high
amp applications with a compact size (size W x D x H: 140 x 149 x 255 mm)

Simple to use

As commonly known from the BZM1 and BZM2 product range, freely place the product - Standard position, horizontal or upside-down. Also the feeding direction can be chosen as required.

· Cable fixing: it's simple!

Wether you choose the **standard cable lug** version with M10 screw or the **Tunnel Terminal option** as accessory - the connection of your cable or busbar is quick and simple!

The BZM3 - not just Breaker!

Accessories are very important for the different applications. Therefore also the BZM3 has the perfect accessories range available for you! Not only shunt trip releases, undervoltage releases and auxiliary contacts are part of the accessories range. Also terminal covers, spreaders, tunnel terminals and phase barriers and a rear connection kit is available for this new product range

Characteristics / Features

Rated current: 250 up to 400A

Breaking capacity 25, 36 or 50kA / 415VAC

Cable fixing: Cable lug M10 or Tunnel terminal (accessory)

Rated voltage: 440V, 50/60Hz 3-Position lever: Off - Trip - On Electrical Supply: Line or Load-Side

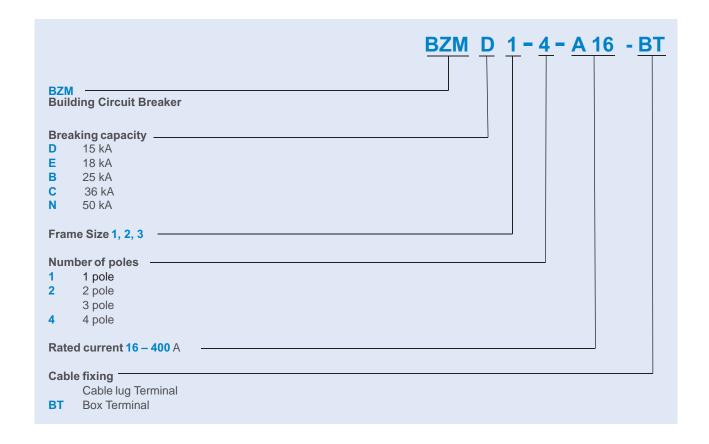
BZM3



Content

BZM1	Page 12-15
BZM2	
BZM3	
Accessories BZM1 Auxiliary contacts Phase barrier Undervoltage release Shunt trip release Terminal cover Rotary handle Door rotary handle Extension shaft Din-rail-adapter Cable Lug BZM1 Locking Device	Page 18
Accessories BZM2 Auxiliary contacts Phase barrier Undervoltage release Shunt trip release Terminal cover Interlock Device	Page 19
	Page 20
Technical Data	Page 21-36

BZM Types Key



Circuit breakers BZM1 1-pole

Rated current a rated ra					
Frotection of systems and cables 18kA at 240 V 50/60 Hz 1/4 miles 1/4		Rated current	Short circuit	Economy switching capacity	
Protection of systems and cables 1-pole		= rated	releases	18kA at 240 V 50/60 Hz	
A		uninterrupted			
Protection of systems and cables		current	1	Part no.	
Total		$I_n = I_{II}$	Α	Article no.	
Protection of systems and cables				1 of each	
1-pole	Duatantian of a	المحمل مسما مماما			
Section Sect		ystems and cabi	es		
16		terminal			
Sample S	2		256 - 384		
Box terminal	e ·	20	256 - 384	BZME1-1-A20	
32 320 - 480 BZME1-1-A32 166253 166254		25	320 - 480	BZME1-1-A25	
Box terminal		32	320 - 480	BZME1-1-A32	
BZME1-1-A50 166255 166256 166256 166256 166256 166256 166256 166256 166256 166257 1000 800 - 1200 BZME1-1-A100 166258 166258 166258 166258 166258 166258 166258 166258 166258 166259 166258 166259 166259 166259 166259 166259 166259 166259 166259 166259 166260 166261		40	320 - 480	BZME1-1-A40	
BBZME1-1-A63 166256 BBZME1-1-A60 BBZME1-1-A60 166257 BBZME1-1-A100 166258 BBZME1-1-A100 166258 BZME1-1-A100 166258 BZME1-1-A10-BT BZME1-1-A20-BT 166260 BZME1-1-A20-BT 166263 BZME1-1-A30-BT 166263 BZME1-1-A30-BT 166263 BZME1-1-A30-BT 166264 BZME1-1-A30-BT 166265 BZME1-1-A80-BT 166266 BZME1-1-A100-BT BZME1-1-A100-BT BZME1-1-A100-BT		50	480 - 720	BZME1-1-A50	
Box terminal		63	480 - 720	BBZME1-1-A63	
Box terminal		80	800 - 1200	BZME1-1-A80	
16		100	800 - 1200	BBZME1-1-A100	
16					
166259 166259 166260 256 - 384 BZME1-1-A20-BT 166260	Box termin				
166260	0			166259	
166261	E			166260	
BZME1-1-A32-BT 166262		25	320 - 480		
BZME1-1-A40-BT 166263 BZME1-1-A50-BT 166264		32	320 - 480		
50 480 - 720 BZME1-1-A50-BT 166264 63 480 - 720 BZME1-1-A63-BT 166265 80 800 - 1200 BZME1-1-A80-BT 166266 100 800 - 1200 BZME1-1-A100-BT		40	320 - 480	BZME1-1-A40-BT	
63 480 - 720 BZME1-1-A63-BT 166265 80 800 - 1200 BZME1-1-A80-BT 166266 100 800 - 1200 BZME1-1-A100-BT		50	480 - 720	BZME1-1-A50-BT	
80 800 - 1200 BZME1-1-A80-BT 166266 100 800 - 1200 BZME1-1-A100-BT		63	480 - 720	BZME1-1-A63-BT	
100 800 - 1200 BZME1-1-A100-BT		80	800 - 1200	BZME1-1-A80-BT	
		100	800 - 1200	BZME1-1-A100-BT 166267	

Note: 1 piece phase barrier BZM1-XKP included in delivery

Circuit breakers BZM1 2-pole

	Rated current = rated	Short circuit releases	Domestic switching capacity 15kA at 415 V 50/60 Hz	Economy switching capacity 18kA at 415 V 50/60 Hz	Basic switching capacity 25kA at 415 V 50/60 Hz
	uninterrupted				
	current	1	Part no.	Part no.	Part no.
	$I_n = I_u$	A	Article no.	Article no.	Article no.
	А	1>	1 of each	1 of each	1 of each
	systems and cabl	es			
pole Cable lug	terminal				
100,00	16	256 - 384	BZMD1-2-A16 129805	BZME1-2-A16 129911	BZMB1-2-A16 112582
TO BE	20	256 - 384	BZMD1-2-A20 129807	BZME1-2-A20 129913	BZMB1-2-A20 112584
1	25	320 - 480	BZMD1-2-A25 129809	BZME1-2-A25 129915	BZMB1-2-A25 112586
	32	320 - 480	BZMD1-2-A32 129881	BZME1-2-A32 129917	BZMB1-2-A32 112588
	40	320 - 480	BZMD1-2-A40 129883	BZME1-2-A40 129919	BZMB1-2-A40 112590
	50	480 - 720	BZMD1-2-A50	BZME1-2-A50	BZMB1-2-A50
	63	480 - 720	129885 BZMD1-2-A63	129921 BZME1-2-A63	112592 BZMB1-2-A63
	80	800 - 1200	129887 BZMD1-2-A80	129923 BZME1-2-A80	112594 BZMB1-2-A80
	100	800 - 1200	129889 BZMD1-2-A100 129891	129925 BZME1-2-A100 129927	112596 BZMB1-2-A100 112598
Box termi	nal				
0000	16	256 - 384	BZMD1-2-A16-BT 129893	BZME1-2-A16-BT 129929	BZMB1-2-A16-BT 112602
	20	256 - 384	BZMD1-2-A20-BT 129895	BZME1-2-A20-BT 129931	BZMB1-2-A20-BT 112604
	25	320 - 480	BZMD1-2-A25-BT 129897	BZME1-2-A25-BT 129933	BZMB1-2-A25-BT 112606
	32	320 - 480	BZMD1-2-A32-BT 129899	BZME1-2-A32-BT 129935	BZMB1-2-A32-BT 112608
	40	320 - 480	BZMD1-2-A40-BT 129901	BZMB1-2-A40-BT 129937	BZMB1-2-A40-BT 112610
	50	480 - 720	BZMD1-2-A50-BT 129903	BZME1-2-A50-BT 129939	BZMB1-2-A50-BT 112612
	63	480 - 720	BZMD1-2-A63-BT 129905	BZME1-2-A63-BT 129941	BZMB1-2-A63-BT 112614
	80	800 - 1200	BZMD1-2-A80-BT 129907	BZME1-2-A80-BT 129943	BZMB1-2-A80-BT 112616

Note: 1 piece phase barrier BZM1-XKP included in delivery

Circuit breakers BZM1 3-pole

	Rated current = rated uninterrupted	Short circuit releases	Domestic switching capacity 15kA at 415 V 50/60 Hz	Economy switching capacity 18kA at 415 V 50/60 Hz	Basic switching capacity 25kA at 415 V 50/60 Hz	Comfort switching capacity 36kA at 400 V 50/60 Hz
	current	ı	Part no.	Part no.	Part no.	Part no.
		A	Article no.	Article no.	Article no.	Article no.
	$I_n = I_u$		1 of each	1 of each	1 of each	1 of each
	А	1>	i oi eacii	i oi each	i oi eacii	i oi each
	stems and cabl	es				
pole Cable lug t	arminal					
	16	256 - 384	BZMD1-A16	BZME1-A16	BZMB1-A16	
000000		_	109706	109707	109708	
7 90	20	256 - 384	BZMD1-A20	BZME1-A20	BZMB1-A20	
三里二		_	109709	109710	109711	
ing a trail	25	320 - 480	BZMD1-A25	BZME1-A25	BZMB1-A25	
	00	000 400	109712	109713	109714	D71404 400
	32	320 - 480	BZMD1-A32	BZME1-A32	BZMB1-A32	BZMC1-A32
	40	320 - 480	109715 BZMD1-A40	109716 BZME1-A40	109717	131251 BZMC1-A40
	40	320 - 480	109718	109719	BZMB1-A40 109720	131252
	50	480 - 720	BZMD1-A50	BZME1-A50	BZMB1-A50	BZMC1-A50
	30	400 - 720	109721	109722	109723	131253
	63	480 - 720	BZMD1-A63	BZME1-A63	BZMB1-A63	BZMC1-A63
	00	400 - 720	109724	109725	109726	131254
	80	800 - 1200	BZMD1-A80	BZME1-A80	BZMB1-A80	BZMC1-A80
	00	000 1200	109727	109728	109729	131255
	100	800 - 1200	BZMD1-A100	BZME1-A100	BZMB1-A100	BZMC1-A100
		.200	109730	109731	109732	131256
	125	800 - 1200	BZMD1-A125	BZME1-A125		
			112490	112492		
Box termin	<u> </u>					
0.00.00	16	256 - 384	BZMD1-A16-BT	BZME1-A16-BT	BZMB1-A16-BT	
	20	050 004	109733	109734	109735	
	20	256 - 384	BZMD1-A20-BT	BZME1-A20-BT	BZMB1-A20-BT	
- 1	25	320 - 480	109736 BZMD1-A25-BT	109737 BZME1-A25-BT	109738 BZMB1-A25-BT	
into a train	20	320 - 400	109739	109740	109741	
	32	320 - 480	BZMD1-A32-BT	BZME1-A32-BT	BZMB1-A32-BT	BZMC1-A32-BT
	32	320 400	109742	109743	109744	131259
	40	320 - 480	BZMD1-A40-BT	BZME1-A40-BT	BZMB1-A40-BT	BZMC1-A40-BT
	.0	020 .00	109745	109746	109747	131260
	50	480 - 720	BZMD1-A50-BT	BZME1-A50-BT	BZMB1-A50-BT	BZMC1-A50-BT
			109748	109749	109750	131261
	63	480 - 720	BZMD1-A63-BT	BZME1-A63-BT	BZMB1-A63-BT	BZMC1-A63-BT
			109751	109752	109753	131262
	80	800 - 1200	BZMD1-A80-BT	BZME1-A80-BT	BZMB1-A80-BT	BZMC1-A80-BT
			109754	109755	109756	131263
	100	800 - 1200	BZMD1-A100-BT	BZME1-A100-BT	BZMB1-A100-BT	BZMC1-A100-BT
			109757	109758	109759	131264
	125	800 - 1200	BZMD1-A125-BT	BZME1-A125-BT		
			112496	112498		

Note: 2 pieces phase barriers BZM1-XKP included in delivery

Circuit breakers BZM1 4-pole

	Rated current	Short circuit	Domestic switching	Economy switching	Basic switching
	= rated	releases	capacity 15kA	capacity 18kA	capacity 25kA
	uninterrupted		at 415 V 50/60 Hz	at 415 V 50/60 Hz	at 415 V 50/60 Hz
	current	1			
	$I_n = I_u$	Α	Part no.	Part no.	Part no.
	Ä	1>	Article no.	Article no.	Article no.
			1 of each	1 of each	1 of each
	stems and cabl	es			
oole					
Cable lug t	<u>erminai</u> 16	256 - 384	BZMD1-4-A16	BZME1-4-A16	BZMB1-4-A16
0,00000000	10	230 - 304	121775	112502	112504
. 9 . 9	20	256 - 384	BZMD1-4-A20	BZME1-4-A20	BZMB1-4-A20
高電	20	200 001	121777	112506	112508
	25	320 - 480	BZMD1-4-A25	BZME1-4-A25	BZMB1-4-A25
inter a trace			121779	112510	112512
	32	320 - 480	BZMD1-4-A32	BZME1-4-A32	BZMB1-4-A32
			121941	112514	112516
	40	320 - 480	BZMD1-4-A40	BZME1-4-A40	BZMB1-4-A40
		<u> </u>	121943	112518	112520
	50	480 - 720	BZMD1-4-A50	BZME1-4-A50	BZMB1-4-A50
			121945	112522	112524
	63	480 - 720	BZMD1-4-A63	BZME1-4-A63	BZMB1-4-A63
	00	000 1000	121947 P7NAD4 4 AGO	112526	112528
	80	800 - 1200	BZMD1-4-A80	BZME1-4-A80	BZMB1-4-A80
	100	800 - 1200	121949 BZMD1-4-A100	112530 BZME1-4-A100	112532 BZMB1-4-A100
	100	000 - 1200	121951	112534	112536
			121001	112007	112000
Box termin	al				
BOX COMMI	16	256 - 384	BZMD1-4-A16-BT	BZME1-4-A16-BT	BZMB1-4-A16-BT
9,00000,00	10	230 - 304	121955	112542	112544
. 0 0	20	256 - 384	BZMD1-4-A20-BT	BZME1-4-A20-BT	BZMB1-4-A20-BT
美工	20	200 001	121957	112546	112548
7	25	320 - 480	BZMD1-4-A25-BT	BZME1-4-A25-BT	BZMB1-4-A25-BT
late a feature			121959	112550	112552
	32	320 - 480	BZMD1-4-A32-BT	BZME1-4-A32-BT	BZMB1-4-A32-BT
			121961	_112554	112556
	40	320 - 480	BZMD1-4-A40-BT	BZME1-4-A40-BT	BZMB1-4-A40-BT
			121963	112558	112560
	50	480 - 720	BZMD1-4-A50-BT	BZME1-4-A50-BT	BZMB1-4-A50-BT
			121965	112562	112564
	63	480 - 720	BZMD1-4-A63-BT	BZME1-4-A63-BT	BZMB1-4-A63-BT
	00	000 1000	121967	112566	112568
	80	800 - 1200	BZMD1-4-A80-BT	BZME1-4-A80-BT	BZMB1-4-A80-BT
	100	800 - 1200	121969 P7MD1 4 A100 PT	112570 P7ME1 4 A100 PT	112572 P7MP1 4 A100 PT
	100	8UU - 12UU	BZMD1-4-A100-BT	BZME1-4-A100-BT 112574	BZMB1-4-A100-BT 112576
	-	-	121971	1120/4	1120/0

Note: 3 pieces phase barriers BZM1-XKP included in delivery

Circuit breakers BZM2 3-pole

	Rated current = rated uninterrupted current $I_n = I_u$ A	Short circuit releases / A	Basic switching capacity 25kA at 415 V 50/60 Hz Part no. Article no. 1 of each	Comfort switching capacity 36kA at 415 V 50/60 Hz Part no. Article no. 1 of each	
Protection of sy	stems and cabl	96			
3-pole	Steriis and tabl				
Cable lug te	erminal				
	125	1400 - 2100	BZMB2-A125 119732	BZMC2-A125 121800	
	160	1400 - 2100	BZMB2-A160 116970	BZMC2-A160 121801	
	200	1400 - 2100	BZMB2-A200 116971	BZMC2-A200 121802	
	250	1400 - 2100	BZMB2-A250 116972	BZMC2-A250 121803	
Cable lug te	erminal (without of 250	verload release) 1400 - 2100	BZMB2-S250 131668		

Note: 2 pieces phase barriers BZM2-XKP included in delivery

Circuit breakers BZM3 3-pole

	Rated current	Short circuit	Basic switching	Comfort switching	Normal switching
	= rated	releases	capacity 25kA	capacity 36kA	capacity 50kA
	uninterrupted	10100303	at 415 V 50/60 Hz	at 415 V 50/60 Hz	at 415 V 50/60 Hz
			at 415 v 50/60 HZ	at 415 V 50/60 HZ	at 415 v 50/60 HZ
	current	1			
	$I_n = I_u$	Α	Part no.	Part no.	Part no.
	Ä		Article no.	Article no.	Article no.
	, ,	1>	1 of each	1 of each	1 of each
Protection of sy	ctome and eabl	00	I UI EdCII	I UI Edili	I UI Edcii
	Steriis and cabi	62			
3-pole					
Cable lug te	er <u>minai</u>	0000 0000	D714D0 40C0	D71400 A0E0	DZNANO AOCO
0.0.0	250	2600-3800	BZMB3-A250	BZMC3-A250	BZMN3-A250
			158104	158108	158272
1 1 1 1	320	2600-3800	BZMB3-A320	BZMC3-A320	BZMN3-A320
E E			158105	158109	158273
	350	2600-3800	BZMB3-A350	BZMC3-A350	BZMN3-A350
			158106	158270	158274
	400	2600-3800	BZMB3-A400	BZMC3-A400	BZMN3-A400
0.00	.50	2000 0000	158107	158271	158275
			100107	100271	100270

Note: 2 pieces phase barriers BZM3-XKP included in delivery

Accessories BZM1

	Description	Part no. Article no.	Std. pack		Description	Part no. Article no.	Std. pack
Auxiliary conta	ects (only for 2, 3 and	d 4pole)		Rotary handle	(only for 2, 3 and 4p	00(e)	1
100	1 NO	M22-K10	20			113168	1
	1 NC	216376 M22-K01 216378	20	1			
Phase barrier	•						
		BZM1-XKP 109760	1	Door rotary had	ndle (only for 2, 3 a	nd 4pole)	
					Entry Copy	BZM1-XTVD 112485	1
Undervoltage i	release (only for 3 ar			3			
	230-240VAC	BZM1-3-XU230-240VAC 158053	1				
Earl &	400-440VAC	BZM1-3-XU400-440VAC 158054	1	Note: XV4 or XV6 n			
The state of the s	24VDC	BZM1-3-XU24VDC	1	Extension axle		D71.44 \0./4	
		158055			Length 400 mm	BZM1-XV4 112486	1
Shunt trip rele	ase (only for 3 and 4	pole)			Length 600 mm	BZM1-XV6 112487	1
Ô	230-240VAC	BZM1-3-XA230-240VAC 158056	1			112107	
Ect-M &	400-440VAC	BZM1-3-XA400-440VAC 158057	1	DIN-rail-adapte	r		
CC	24VDC	BZM1-3-XA24VDC	1	•	For 2-pole BZM	BZM1-2-XC35	1
		158058			For 3- a. 4-pole BZM	112489 BZM1-XC35	1
Terminal cover	(only for 1pole BZM)		- 4		112488	
444	for 1pole BZM	BZM1-1-XKSA 166268	1				
	for 2pole BZM	BZM1-2-XKSA 112484	1				
	for 3pole BZM	BZM1-XKSA	1	Cable Lug	0		
	for 4pole BZM	112482 BZM1-4-XKSA	1		35 mm ² / M6	BZM1-XKS35 113609	10
		112483		6	50 mm ² / M6	BZM1-XKS50 113750	10
				BZM1 Locking	Device	BZM1-XKAV	1
				PRE		152899	1
				(32)			

Accessories BZM2

	Description	Part no. Article no.	Std. pack
Auxiliary contact	cts		
	1 NO	M22-K10	20
	1 NC	216376 M22-K01 216378	20
Phase barrier			
		BZM2-XKP 118720	1
Undervoltage re	elease		
	230-240VAC	BZM1-3-XU230-240VAC 158053	1
- A	400-440VAC	BZM1-3-XU400-440VAC 158054	1
The second secon	24VDC	BZM1-3-XU24VDC 158055	1
Shunt trip relea	se		
O	230-240VAC		1
Tan A	400-440VAC	158056 BZM1-3-XA400-440VAC 158057	1
DE SECURITION OF THE PERSON OF	24VDC	BZM1-3-XA24VDC 158058	1
Terminal cover			
11	1		
		BZM2-XKSA 118727	1
Interlock Device)		
1 150		BZM2-XKAV 131669	1

Accessories BZM3

Tunnel Terminal (for one side of the breaker) Tunnel Terminal (for one sid		1 NO	216376 M22-K01					
18303 1830	Phase barrier		216376 M22-K01		T T T	185mm ²		
1 NC M22-K01 20 240mm² 158304 1 set 158305 1 set 158304 1 set 158305 1 set 158304 1 set	Phase barrier	1 NC	M22-K01	20		10011111		1 set
SZM3 XKP 1 185300 2400m² 240mm² 220040 3200400 3200400 3200400 3200400 3200400 3200400 3200400	Phase barrier				5 5 5	240mm²	BZM3-XKA2	1 set
158300 260040 2240mm² 280040 280041 2440mm² 280041 2440mm² 280041 2440mm² 280041 2440mm² 280041 244004C 158053 24400C 1 158054 2440C 282M1-3-XU230-240VAC 1 158056 2440C 230-240VAC 282M1-3-XA230-240VAC 1 158056 2440C 2440C 282M1-3-XA230-240VAC 1 158058 282M1-3-XA240C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11				Cable Lug			
NZM3 XKS240 3 260041 3				1		185mm²		3
230-240VAC 188053 189054 189054 189054 189054 189054 189054 189054 189054 189054 189054 189055 189055 189055 189055 189055 189055 189055 189055 189055 189055 189055 189055 189057 189057 189057 189057 189057 189057 189057 189057 189057 189057 189057 189057 189057 189057 189057 189057 189058			158300		SP	240mm ²	NZM3-XKS240	3
230-240VAC 189053 24VDC 189053 24VDC 189054 24VDC 189055 230-240VAC 189055 230-240VAC 189055 230-240VAC 230-240VAC 230-240VAC 230-240VAC 24VDC 258058	Jndervoltage r	elease						
### ### ### ### #### #### ############				1				
Situat trip release	1.41	400-440VAC	BZM1-3-XU400-440VAC	1				
230-240VAC BZM1-3-XA230-240VAC 1 1 1 1 1 1 1 1 1	1	24VDC	BZM1-3-XU24VDC	1				
158056 BZM1-3-XA400-440VAC 1 158057 BZM1-3-XA24VDC 1 158058	Shunt trip relea	ase						
A00-440VAC BZM1-3-XA400-440VAC 1 158057	Ô	230-240VAC		1				
BZM3-XKSA 1 158305 BZM3-XKSA 1 1 158305 BZM3-XKSA 1 1 158305	ET A	400-440VAC	BZM1-3-XA400-440VAC	1				
BZM3-XKSA 1 158305 Bear Connection BZM3-XKR 1 185301 By the state of the breaker)	CO MESSAGE	24VDC	BZM1-3-XA24VDC	1				
Rear Connection BZM3-XKR 1 185301 Spreaders (for one side of the breaker)	erminal cover							
BZM3-XKR 1 185301 Spreaders (for one side of the breaker)			BZM3-XKSA 158305	1				
185301 Spreaders (for one side of the breaker)	Rear Connection	on						
	A . A .	•		1				
BZM3-XKV70KB 1 set 158302	Spreaders (for	one side of the b	reaker)					
	336	2	BZM3-XKV70KB 158302	1 set				

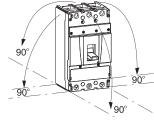
Technical Data BZM1, BZM2

Notes: 1) not valid for BZMB2-S250

			Rated current max. 12 BZM1	5 A	Rated current max. 250 A BZM2
Mechanical specifications					
Standards			IEC/EN 60947-2		IEC/EN 60947-2
Number of poles			1, 2, 3, 4		3
Device width		mm	1pole:25, 2pole: 50, 3p	ole: 75, 4pole: 100	3pole: 105
Frame size		mm	45		45
Socket size		mm	130		165
Device depth		mm	84.7		91,5
Terminals			Lift terminal, ring tongo	ue connector	ring tongue connector
Terminal capacity lift terminal		mm^2	rigid (solid/stranded) a	nd flexible wire (2.5 - 50)	_
Terminal capacity ring tongue		mm	Diameter: max. 15		Diameter: max. 24
Busbar thickness		mm			max. 8
Terminal screw			M6 (Pozidriv PZ2)		M8
Terminal torque		Nm	4		14
Degree of Protection (DIN VDE 0470)			Built-in behind panel IF	240	Built-in behind panel IP40
Climatic conditions			acc. to IEC 68-2 (2555		acc. to IEC 68-2 (2555°C / 9095% RH)
Ambient temperature					
Storage		°C	-35 +85		-35 +85
Operation		°C	-25 +70		-25 +70
Mounting positions			Vertical and 90° in all of	directions	Vertical and 90° in all directions
			900	90°	90°
Protection System					
Enclosures			With insulating surrour	nd: IP40	With insulating surround: IP40
Number of mechanical operating cycles			> 10.000		> 8.000
Pollution degree			3		3
Electrical specifications					
			1pole	2,3 and 4pole	
Maximum LV h.b.c. fuse		A gG/gL	200	200	315
Rated operational voltage	U _e	V AC	230/240, 50/60 Hz	400/415, 50/60 Hz	400/415, 50/60 Hz
Rated current	I _n	А	16 up to 100	16 up to 125	125, 160, 200, 250
Rated impulse withstand voltage	Ü _{imp}	V	4.000 (1.2/50 μsec)	6.000 (1.2/50 µsec)	6.000 (1.2/50 µsec)
Overvoltage category					
Rated insulation voltage	U _i	V	690	690	690
For use in IT electrical power networks		V	230/240	400/415	400/415
Direction of incoming supply			As required	As required	As required
Number of electrical operating cycles			> 1.500	> 1.500	1.000
Tripping characteristic					
Conventional non-tripping current			$I_{nt} = 1.05 I_n$	$I_{nt} = 1.05 I_n$	$I_{nt} = 1.05 I_n^{(1)}$
Conventional tripping current			$I_t = 1.30 I_n$	$I_{t} = 1.30 I_{n}$	$I_{t} = 1.30 I_{n}$
Reference temperature		°C	40	30	30

Technical Data BZM3

		Rated current max. 400 A BZM3
Mechanical specifications		
Standards		IEC/EN 60947-2
Number of poles		3
Device width	mm	3pole: 140
Frame size	mm	95
Socket size	mm	255
Device depth	mm	110
Terminals		
Terminal capacity ring tongue	mm	32
Terminal capacity Tunnel Terminal XKA1	mm²	max. 350A
Copper Cabel/Aluminium cable:		1 x 16 - 185
Terminal capacity Tunnel Terminal XKA2	mm²	max. 400A
Copper Cable/Aluminium cable:		_1 x 50 - 240 or 2 x 50 - 240
Busbar thickness	mm	as required
Terminal screw		M10
Terminal torque	Nm	30
Degree of Protection (DIN VDE 0470)		Built-in behind panel IP40
Climatic conditions		acc. to IEC 68-2 (2555°C / 9095% RH)
Ambient temperature		
Storage	°C	<u>-35 +85</u>
Operation	°C	-25 +70
Mounting positions		Vertical and 90° in all directions



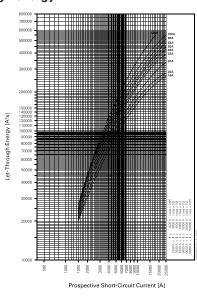
Protection System			
Enclosures			With insulating around: IP40
Number of mechanical operating cycles			> 5.000
Pollution degree			3
Electrical specifications			
Rated operational voltage	U_e	V AC	440, 50/60 Hz
Rated current	In	А	250, 320, 350, 400
Rated impulse withstand voltage	U _{imp}	V	8.000 (1.2/50 µsec)
Overvoltage category			
Rated insulation voltage	U_i	V	690
For use in IT electrical power networks		V	440
Direction of incoming supply			_As required
Number of electrical operating cycles			> 1.000
Tripping characteristic			
Conventional non-tripping current			$I_{nt} = 1.05 I_{n}$
Conventional tripping current		-	$I_{t} = 1.30 I_{0}$
Reference temperature		°C	40

Technical Data BZM1, BZM2

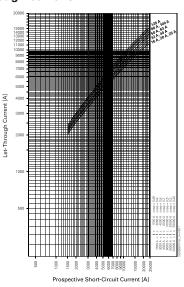
			BZMD1	BZME1	BZMB1	BZMC1	BZMB2	BZMC2
Switching capacity								
Rated short-circuit breaking capacity								
I _{CLI} to IEC/EN 60947 operating sequence								
0-t-CO, 130 V 50/60 Hz	I _{CU}	kA	30	36	50		-	-
0-t-CO, 240 V 50/60 Hz	I _{CU}	kA	30	36	50	-	-	-
0-t-CO, 400/415 V 50/60 Hz ¹⁾	I _{CU}	kA	15	18	25	36/400VAC	25	36
I _{CS} to IEC/EN 60947 operating sequence						-		
0-t-CO-t-CO, 130 V 50/60 Hz	I _{cs}	kA	18	15	25	-	-	-
0-t-CO-t-CO, 240 V 50/60 Hz	I _{CS}	kA	18	15	25		-	-
0-t-CO-t-CO, 400/415 V 50/60 Hz ¹⁾	Ics	kA	7.5	9	12.5	18/9*/400VAC	12.5	9
Utilization category to IEC/EN 60947-2								
*9kA/400VAC at IN=80, 100A			Α	Α	Α	А	Α	Α

Notes: 1) for BZM1 1pole 230/400 V, 50/60Hz

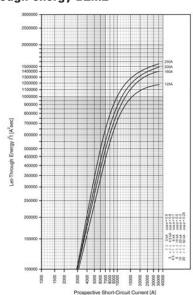
Let-through energy BZM1



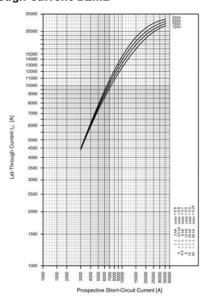
Let-through current BZM1



Let-through energy BZM2



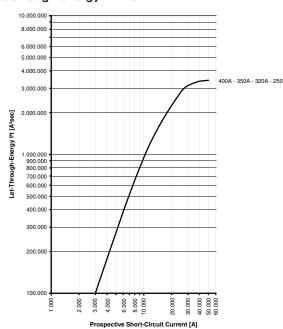
Let-through current BZM2



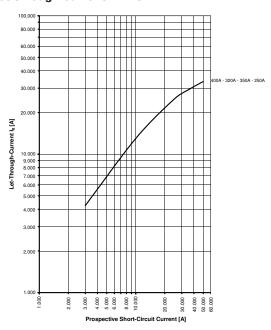
Technical Data BZM3

			BZMB3	BZMC3	BZMN3	
Switching capacity						
Rated short-circuit breaking capacity						
Icu to IEC/EN 60947 operating sequence						
0-t-C0, 240 V 50/60 Hz	lcu	kA	50	85	100	
0-t-CO, 400/415 V 50/60 Hz	lcu	kA	25	36	50	
0-t-C0, 440 V 50/60 Hz	lcu	kA	20	25	36	
Ics to IEC/EN 60947 operating sequence						
0-t-C0, 240 V 50/60 Hz	lcs	kA	25	42,5	50	
0-t-CO-t-CO, 400/415 V 50/60 Hz	lcs	kA	12.5	18	25	
0-t-C0, 440 V 50/60 Hz	lcs	kA	10	12,5	18	
Utilization category to IEC/EN 60947-2			A	A		

Let-through energy BZM3



Let-through current BZM3



Backup protection

between incoming circuit-breaker NZM (B)(C)(N)(H) and outgoing circuit-breaker BZM (D)(E)(B)(C)										
		Incoming circuit-breaker								
		NZM1				NZM2	NZM2			
In		up to 160) A			up to 25	up to 250 A			
I _{cu}	(415 V)	25kA	36kA	50kA	100kA	25kA	36kA	50kA	150kA	
Outgoing Circuit Breaker										
I _{cu} (415 V)										
BZMD1 15 kA up	to 125 A	18	25	36	40	18	25	36	50	
BZME1 18 kA up	to 125 A	20	30	40	50	20	30	40	70	
BZMB1 25 kA up	to 125 A	25	36	50	70	25	36	50	100	
BZMC1* 36 kA* up	to 100 A*	25*	36*	50*	70*	25*	36*	50*	100*	
BZMB2 25 kA up	to 250 A	-	-	-	-	-	36	50	100	
BZMC2 36 kA up	to 250 A	-	-	-	-	-	-	50	100	
* I _{cu} (400 V)										

Back-up Protection PLHT / BZM(B)(C)(D)(E)1

	PLHT-I _n /1(2,3,4)/B(C) + BZMB1						
I _n [A]	U _e = 230/400 V, U _e = 240/415 V						
20							
25							
32							
40	18 kA (BZMB1 - A125)						
50							
63	25 kA (BZMB1-A16A100)						
80							
100							
125							

	$PLHT-I_{n}/1(2,3,4)/B(C) + BZMC1$							
I _n [A]	U _e = 230/400 V							
20								
25								
32								
40	25 kA							
50	25 kA							
63								
80								
100								

	$PLHT-I_{n}/1(2,3,4)/B(C) + BZMD1$							
I _n [A]	U _e = 230/400 V, U _e = 240/415 V							
20								
25								
32								
40								
50	15 kA							
63								
80								
100								
125								

	PLHT-I _n /1(2,3,4)/B(C) + BZME1						
I _n [A]	U _e = 230/400 V, U _e = 240/415 V						
20							
25							
32							
40							
50	18 kA						
63							
80							
100							
125							

Back-up tests acc. to IEC/EN 60947-2, App. A.6: U = 1.05*U_e (O - t - CO)

Back-up Protection PLHT / BZM(B)(C)2

	$PLHT-I_{n}/1(2,3,4)/B(C) + BZMB2$							
I _n [A]	U _e = 230/400 V, U _e = 240/415 V							
20								
25								
32								
40								
50	25 kA							
63								
80								
100								
125								

	PLHT-I _n /1(2,3,4)/B(C) + BZMC2						
I _n [A]	U _e = 230/400 V, U _e = 240/415 V	1					
20		1					
25							
32		ı					
40		١.					
50	25 kA						
63							
80							
100							
125		L					

Back-up tests acc. to IEC/EN 60947-2, App. A.6: $U = 1.05*U_e$ (O - t - CO)

 $[\]begin{array}{l} {\rm U_e} = 400/415 {\rm V:} \; {\rm I_{CU}} \; ({\rm BZMD1}) = 15 \; {\rm kA} \; ({\rm acc. \; to \; IEC/EN \; 60947-2}) \\ {\rm U_e} = 400/415 {\rm V:} \; {\rm I_{CU}} \; ({\rm BZME1}) = 18 \; {\rm kA} \; ({\rm acc. \; to \; IEC/EN \; 60947-2}) \\ {\rm U_e} = 400/415 {\rm V:} \; {\rm I_{CU}} \; ({\rm BZMB1}) = 25 \; {\rm kA} \; ({\rm acc. \; to \; IEC/EN \; 60947-2}) \end{array}$

 $U_e = 400V: I_{CU} \text{ (BZMC1)} = 36 \text{ kA (acc. to IEC/EN 60947-2)}$

 $[\]rm U_e = 240/415V: \, I_{CU} \, (PLHT-20..63/1..4/B,C,D) = 25 \, kA \, (acc. \, to \, IEC/EN \, 60947-2)$

 $[\]begin{array}{l} U_{\rm e} = 240/415 \text{V: } I_{\rm CU} \; (\text{PLHT-80/1..4/B,C}), \; \text{PLHT-100/1..4/B,C}) = 20 \; \text{kA} \; (\text{acc. to IEC/EN 60947-2}) \\ U_{\rm e} = 240/415 \text{V: } I_{\rm CU} \; (\text{PLHT-100/1..4/D}, \; \text{PLHT-125/1..4/B,C}) = 15 \; \text{kA} \; (\text{acc. to IEC/EN 60947-2}) \\ \end{array}$

 $[\]rm U_e$ = 400/415V: $\rm I_{CU}$ (BZMB2) = 25 kA (acc. to IEC/EN 60947-2)

 $U_e = 400/415V$: I_{CU} (BZMC2) = 36 kA (acc. to IEC/EN 60947-2)

 $[\]begin{array}{l} {\rm U_e} = 240/415{\rm V:}\ {\rm I_{CU}}\ ({\rm PLHT-}20..63/1..4/B,C,D}) = 25\ {\rm kA}\ ({\rm acc.\ to\ IEC/EN\ 60947-2}) \\ {\rm U_e} = 240/415{\rm V:}\ {\rm I_{CU}}\ ({\rm PLHT-}80/1..4/B,C,D,\ {\rm PLHT-}100/1..4/B,C}) = 20\ {\rm kA}\ ({\rm acc.\ to\ IEC/EN\ 60947-2}) \\ {\rm U_e} = 240/415{\rm V:}\ {\rm I_{CU}}\ ({\rm PLHT-}100/1..4/D,\ {\rm PLHT-}125/1..4/B,C}) = 15\ {\rm kA}\ ({\rm acc.\ to\ IEC/EN\ 60947-2}) \\ \end{array}$

Back-up Protection FAZ/PLSM / BZM(B)(C)(D)(E)1

FAZ/PLSM-I _n /1(1N,2,3,3N,4)/B(C)(D) + BZMB1								
	U _e = 230/400 V, U _e = 240/415 V							
I _n [A]	Туре В	Туре С	Type D					
0.16			х					
0.25	×		^					
0.5	^							
0.75			X					
1								
1.5								
1.6								
2								
2.5								
3								
3.5								
4								
5	25 kA (up to -A100) 18 kA (Type -A125)							
6								
8								
10								
12								
13								
15								
16								
20								
25								
32								
40								
50								
63								

FAZ/PLSM-I _n /1(1N,2,3,3N,4)/B(C)(D) + BZMC1								
		U _e = 230/400 V						
I _n [A]	Туре В	Туре С	Type D					
0.16			х					
0.25	×		^					
0.5	^							
0.75			Х					
1								
1.5								
1.6								
2								
2.5								
3								
3.5								
4								
5		0014						
6		20 kA						
8								
10								
12								
13 15								
16								
20								
25								
32								
40								
50								
63								

FAZ/PLSM-I _n /1(1N,2,3,3N,4)/B(C)(D) + BZMD1						
	U _e = 230/400 V, U _e = 240/415 V					
I _n [A]	Type B	Type C	Type D			
0.16			х			
0.25	×					
0.5	^					
0.75			X			
1						
1.5						
1.6						
2						
2.5						
3						
3.5						
4						
5						
6		15 kA				
8						
10						
12						
13						
15						
16						
20						
25						
32						
40						
50						
63						

FAZ/PLSM-I _n /1(1N,2,3,3N,4)/B(C)(D) + BZME1									
	U _e = 230/400 V, U _e = 240/415 V								
I _n [A]	Туре В Туре С Туре D								
0.16	×								
0.25	v	^							
0.5	×								
0.75			X						
1									
1.5									
1.6									
2									
2.5									
3									
3.5									
4									
5									
6		18 kA							
8									
10									
12									
13									
15									
16									
20									
25									
32									
40									
50									
63									

 $[\]begin{array}{l} \textbf{U}_{e} = 400/415V: \ \textbf{I}_{CU} \ (BZMD1) = 15 \ \text{kA} \ (acc. \ to \ IEC/EN \ 60947-2) \\ \textbf{U}_{e} = 400/415V: \ \textbf{I}_{CU} \ (BZME1) = 18 \ \text{kA} \ (acc. \ to \ IEC/EN \ 60947-2) \\ \textbf{U}_{e} = 400/415V: \ \textbf{I}_{CU} \ (BZMB1 \ up \ to \ -A100) = 25 \ \text{kA} \ (acc. \ to \ IEC/EN \ 60947-2) \\ \textbf{U}_{e} = 400/415V: \ \textbf{I}_{CU} \ (BZMB1 \ -A125) = 18 \ \text{kA} \ (acc. \ to \ IEC/EN \ 60947-2) \\ \textbf{U}_{e} = 400: \ \textbf{I}_{CU} \ (BZMC1) = 36 \ \text{kA} \ (acc. \ to \ IEC/EN \ 60947-2) \\ \end{array}$

 $[\]begin{array}{l} U_{e} = 240/415V: I_{CU} \ (PLSM \ all \ types \ except \ D50, \ D63) = 15 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ U_{e} = 240/415V: I_{CU} \ (PLSM \ type \ D50, \ D63) = 10 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ Back-up \ tests \ acc. \ to \ IEC/EN \ 60947-2, \ App. \ A.6: \ U = 1.05*U_{e} \ (O - t - CO) \end{array}$

Back-up Protection FAZ/PLSM / BZM(B)(C)2

FAZ/PLSM-I _n /1(1N,2,3,3N,4)/B(C)(D) + BZMB2									
	$U_e = 230/400 \text{ V}, U_e = 240/415 \text{ V}$								
I _n [A]	Type B	Type D							
0.16			×						
0.25	×								
0.5									
0.75			X						
11									
1.5									
1.6									
2									
2.5									
3									
3.5									
5									
6	20 kA								
8									
10									
12									
13									
15									
16									
20									
25									
32									
40									
50	18 kA								
63			10 KA						

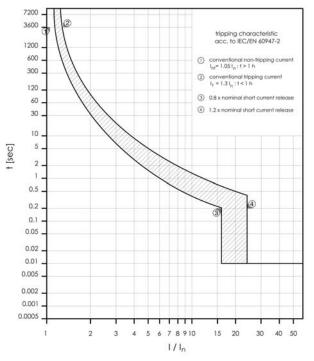
U _e	=	400/415\	/: I _{CU}	(BZMB2)	=	25	kΑ	(acc.	to	IEC/EN	60947-2)
U_	=	400/415\	/: I _{cu}	(BZMC2)	=	36	kΑ	(acc.	to	IEC/EN	60947-2)

FAZ/PLSM-I _n /1(1N,2,3,3N,4)/B(C)(D) + BZMC2								
	$U_e = 230/400 \text{ V}, U_e = 240/415 \text{ V}$							
I _n [A]	Type B	Type D						
0.16			×					
0.25	×		^					
0.5	^							
0.75			X					
1								
1.5								
1.6								
2								
2.5								
3								
3.5								
4								
5								
6	20 kA							
8								
10								
12								
13								
15								
16								
20								
25								
32								
40								
50			18 kA					
63			10101					

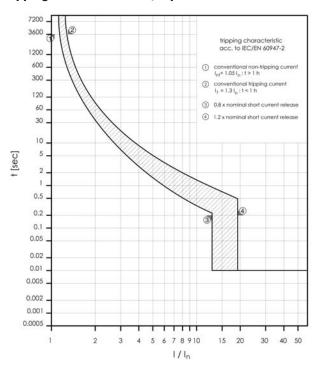
 $[\]begin{array}{l} U_{e} = 240/415V: \ |_{CU} \ (PLSM \ all \ types \ except \ D50, \ D63) = 15 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ U_{e} = 240/415V: \ |_{CU} \ (PLSM \ type \ D50, \ D63) = 10 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ Back-up \ tests \ acc. \ to \ IEC/EN \ 60947-2, \ App. \ A.6: \ U = 1.05*U_{e} \ (O - t - CO) \end{array}$

Tripping Current Curves BZM1

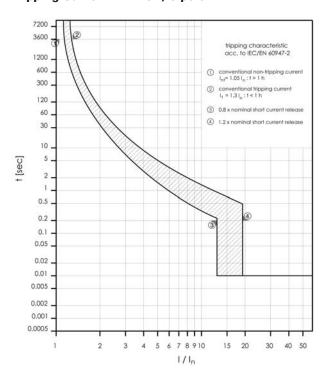
Tripping Curve BZM1 16A, 3-pole



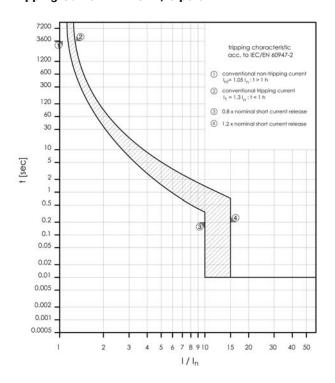
Tripping Curve BZM1 20A, 3-pole



Tripping Curve BZM1 25A, 3-pole

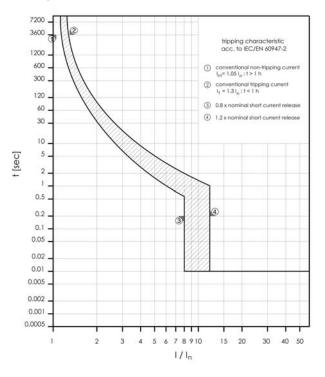


Tripping Curve BZM1 32A, 3-pole

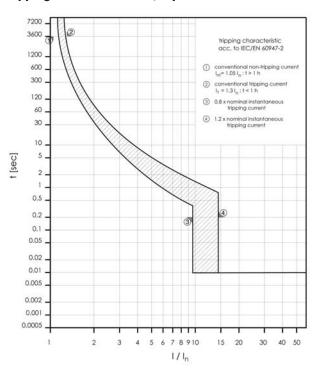


Tripping Current Curves BZM1

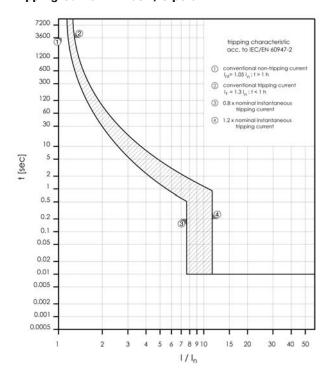
Tripping Curve BZM1 40A, 3-pole



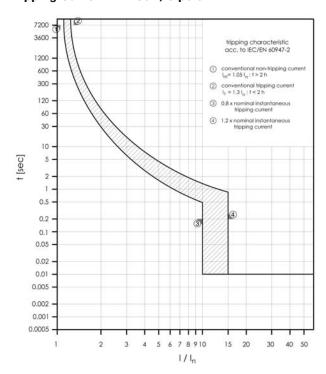
Tripping Curve BZM1 50A, 3-pole



Tripping Curve BZM 63A, 3-pole

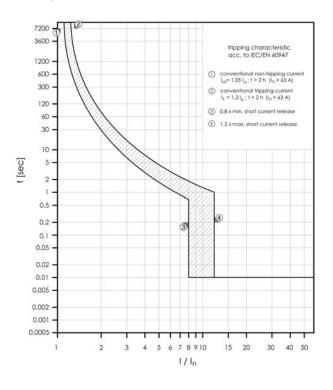


Tripping Curve BZM1 80A, 3-pole

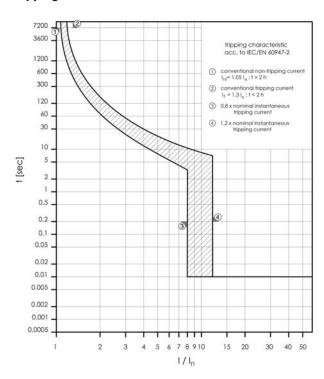


Tripping Current Curves BZM1, BZM2

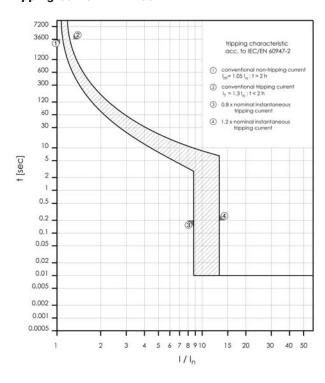
Tripping Curve BZM1 100A, 3-pole



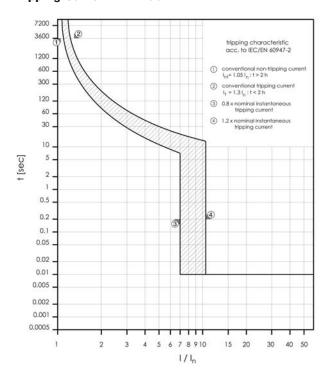
Tripping Curve BZM2 125A



Tripping Curve BZM2 160A

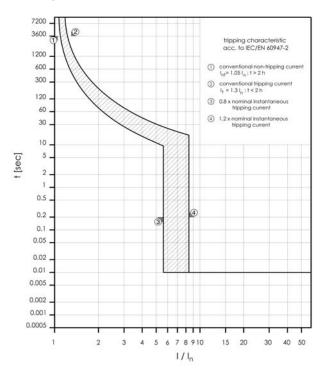


Tripping Curve BZM2 200A

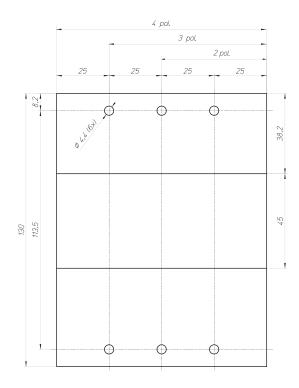


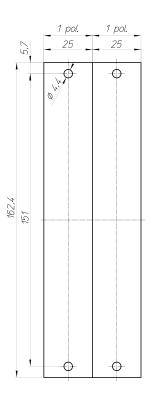
Tripping Current Curves BZM2 Mounting Holes BZM1

Tripping Curve BZM2 250A

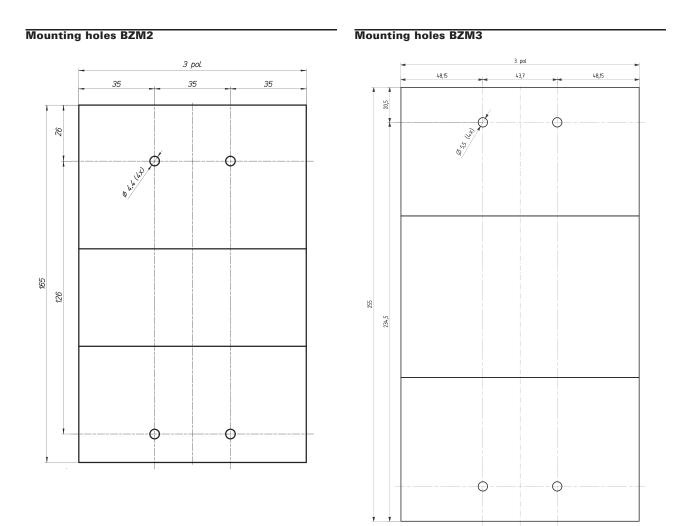


Mounting holes BZM1



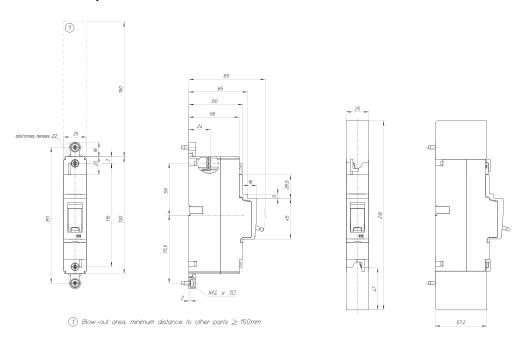


Mounting Holes BZM2 and BZM3

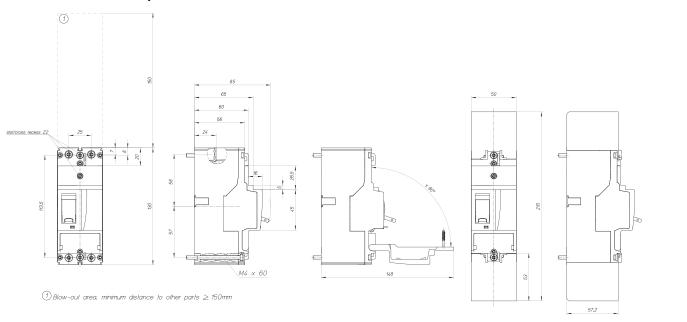


Dimensions BZM1

Circuit breaker BZM1 1-pole

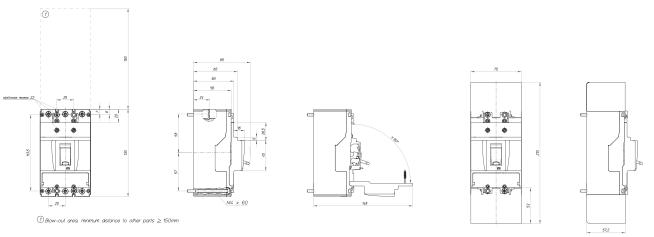


Circuit breaker BZM1 2-pole

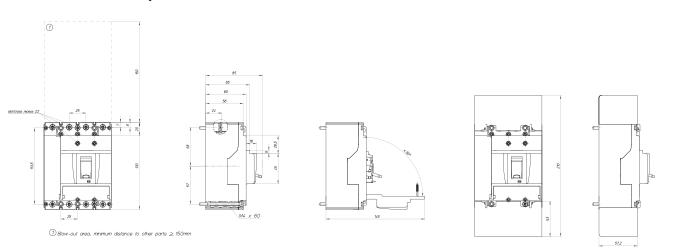


Dimensions BZM1

Circuit breaker BZM1 3-pole

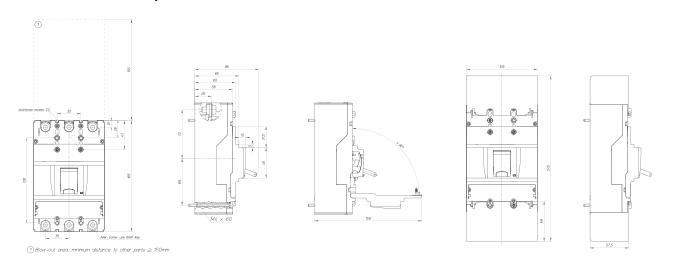


Circuit breaker BZM1 4-pole

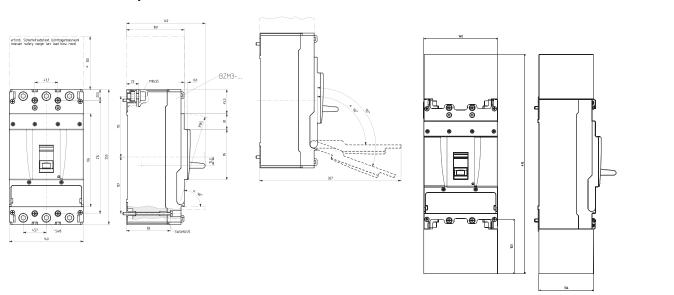


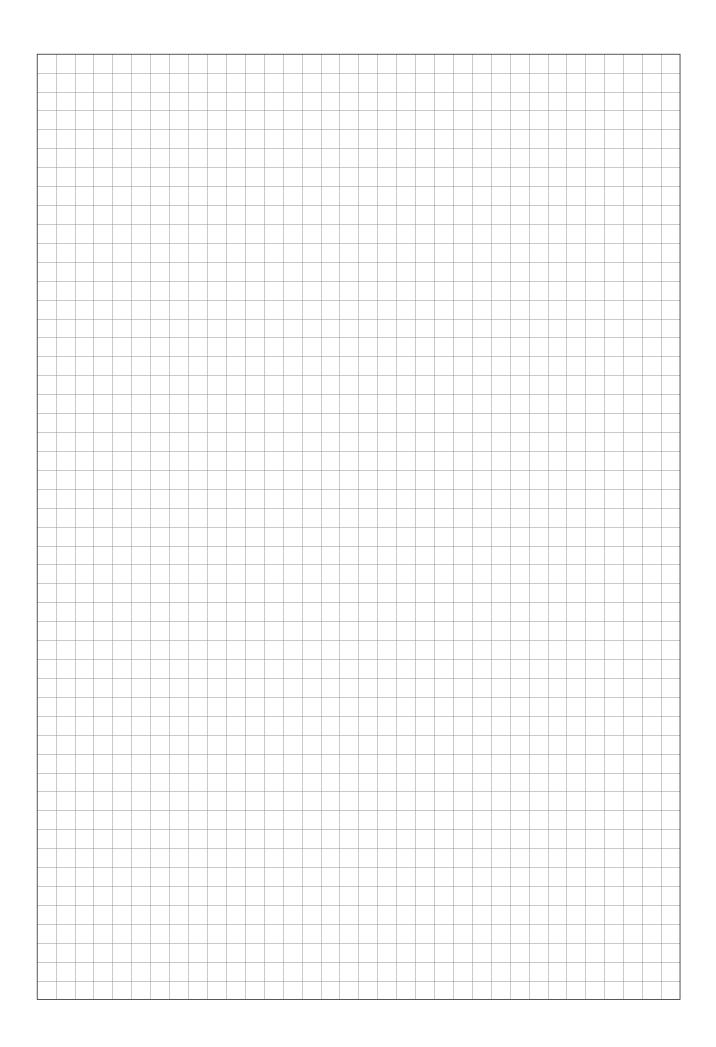
Dimensions BZM2 and BZM3

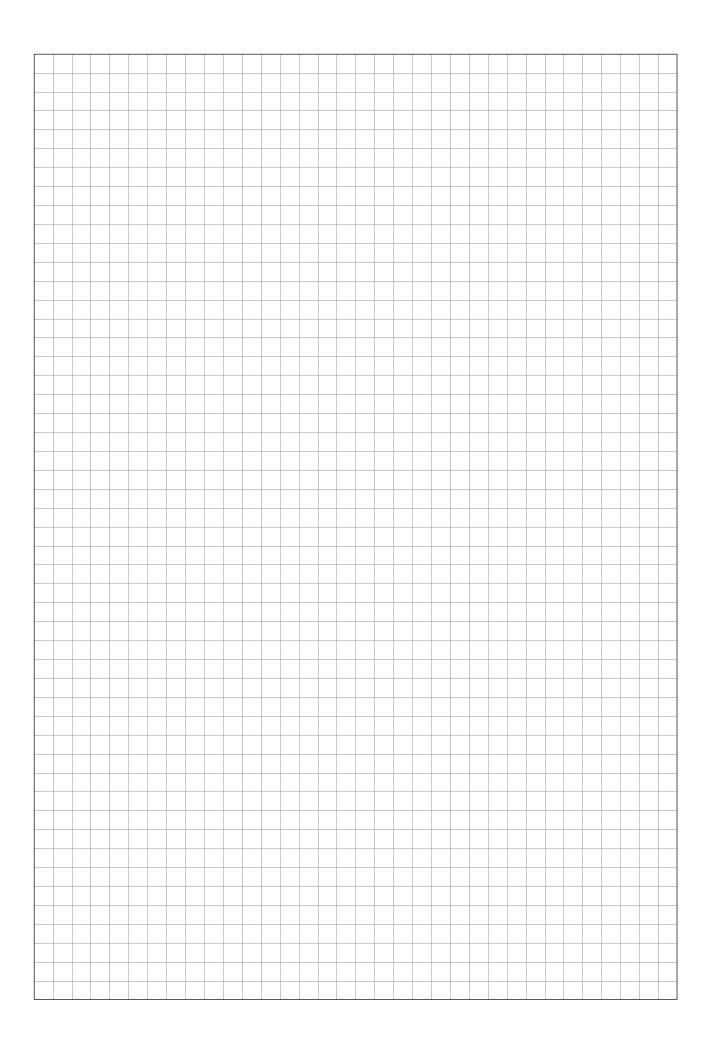
Circuit breaker BZM2 3-pole

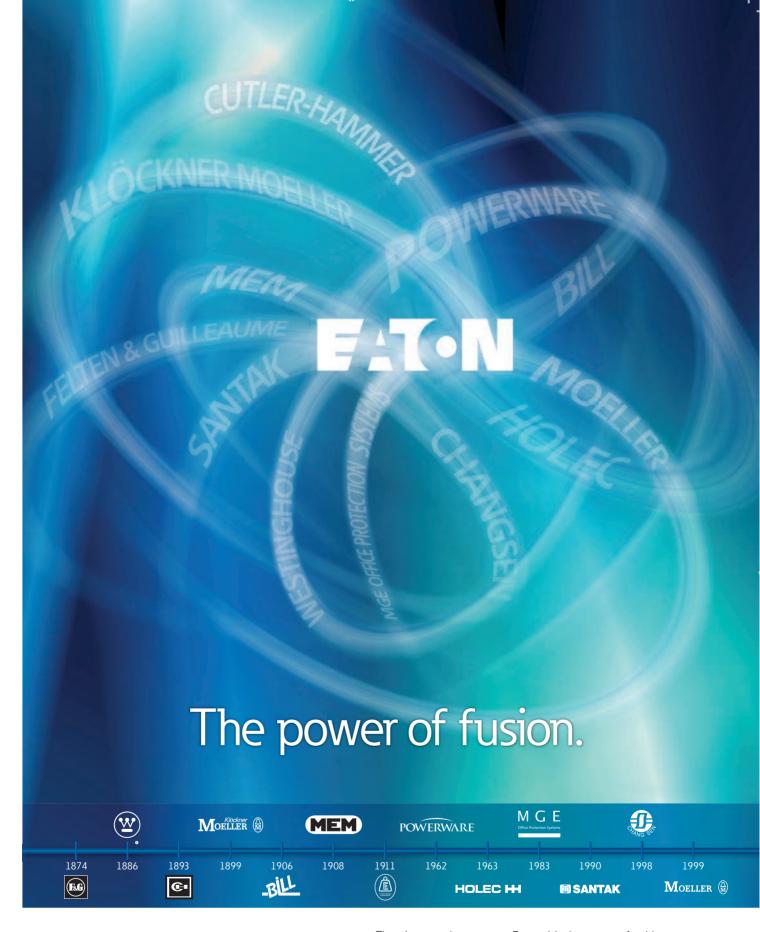


Circuit breaker BZM3 3-pole











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