

Circuit breakers BZM

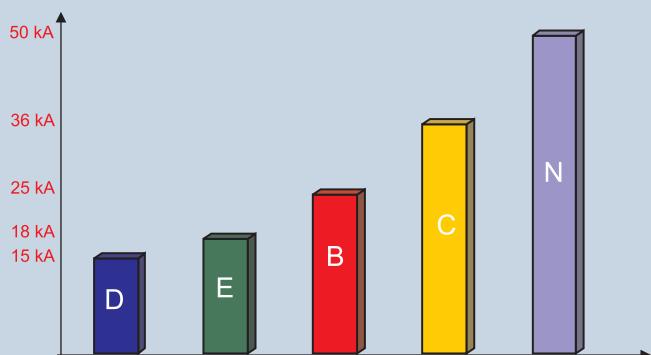
# Circuit breakers BZM



**EATON**

*Powering Business Worldwide*

# Optimum and efficient protection for every application



Compact

Simple

Safe

## The new BZM

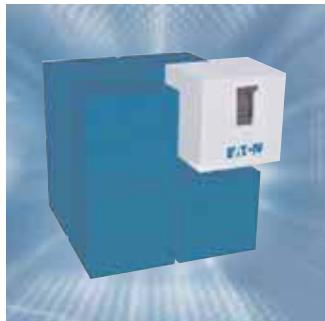
Eaton is a synonym for innovation, product quality, reliability and decades of experience in the electrical engineering industry. Our products comply with the latest national and international standards and regulations.

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 and 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

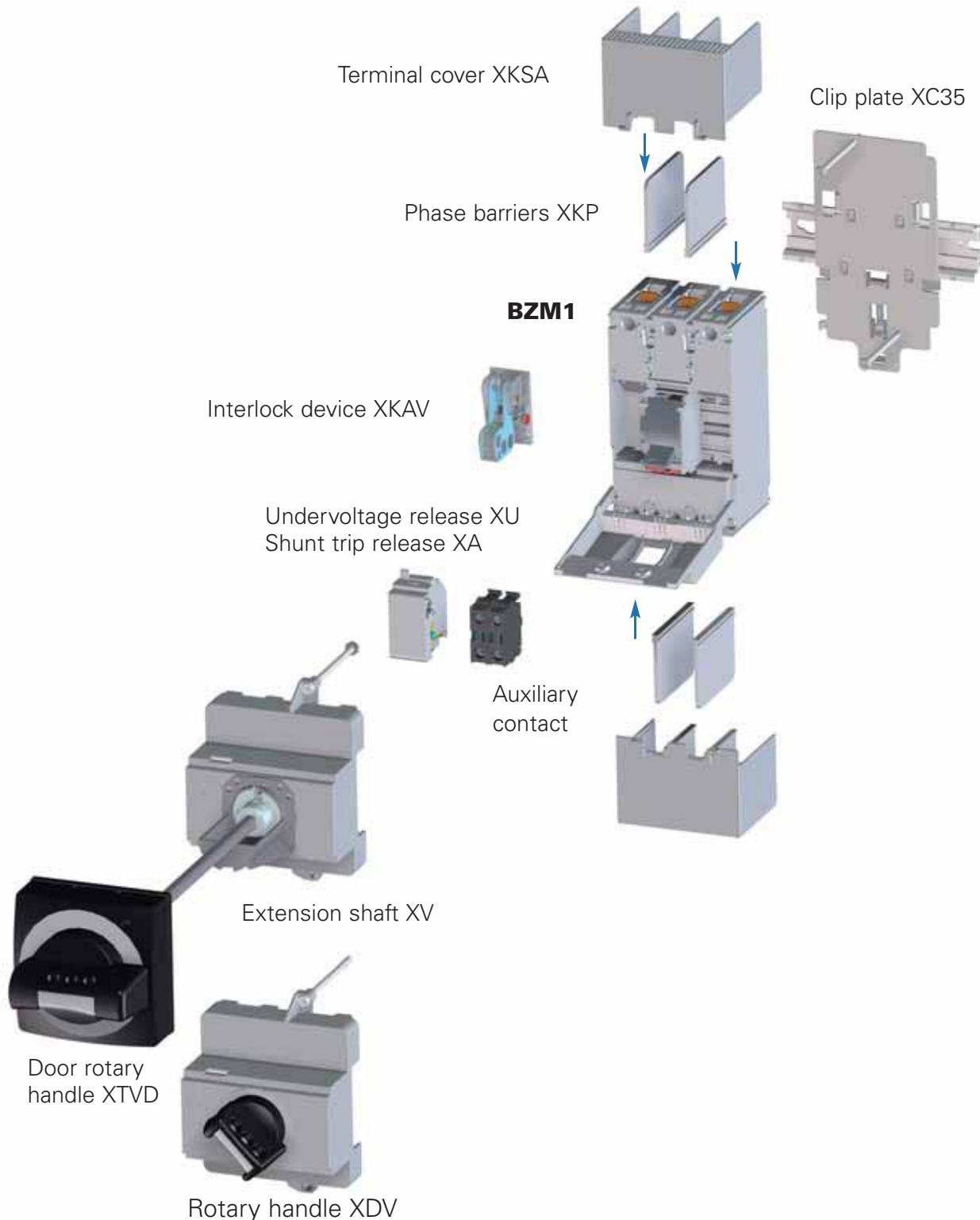
Eaton's switchgears have a worldwide reputation for being the benchmark in low-voltage power distribution. Eaton's quality protects people and assets against shortcircuits and overload, with the BZM series being designed for the 16 to 400 A range in sub-distribution.

### 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).

## Range overview BZM1



## 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 (BZM...-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 relevant 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 (BZM...-BT)

Available poles: 3pole, 4poles

Rated Voltage: 400/415V, 50/60Hz

3-Position lever: Off - Trip - ON

Electrical Supply: Line or Load-Side

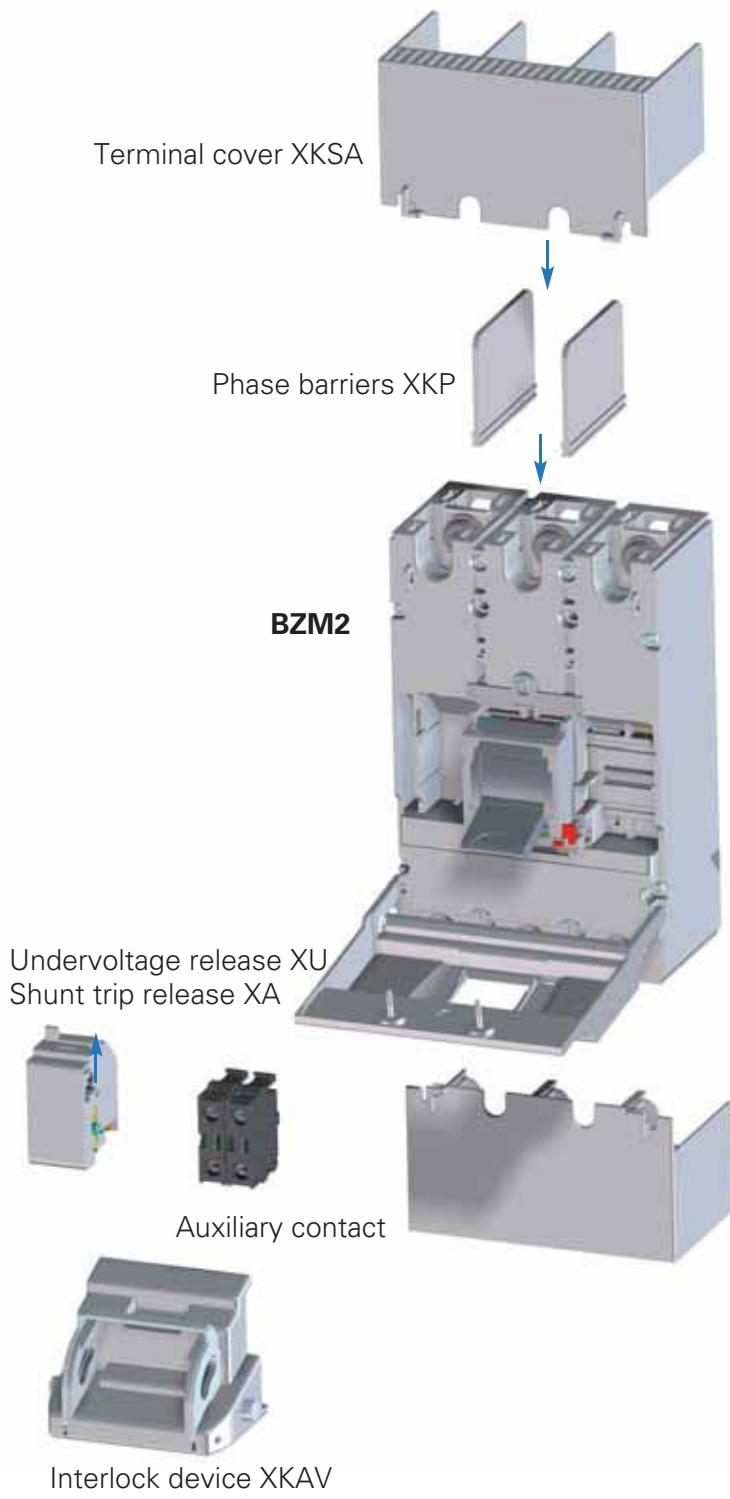
BZM1



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 of 36 kA: it impresses especially with its functionality and robust design.

The 3-pole version (size W x D x H: 105 x 91.5 x 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.

BZM2



### 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 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: Cable lug M8

Available poles: 3pole

Rated Voltage: 400/415V, 50/60Hz

3-Position lever: Off - Trip - ON

Electrical Supply: Line or Load-Side

## Range overview BZM3

Tunnel terminal XKA2



Tunnel terminal XKA1



Undervoltage release XU  
Shunt trip release XA



Spreader XKV70KB



Auxiliary contact  
M22



Terminal cover XKSA

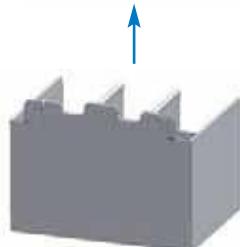


Phase barriers XKP



Rear connection XKR

**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 cur-rentis ranging from 250 up to 400 Aand a maximumbreaking capacity of 50kA / 415VAC and 36kA /440VAC. Eaton's BZM3 products - the prefect solution for your highamp applications with a compact size (size W x D x H: 140x 149 x 255 mm)

## Simple to use

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

## Cable fixing:it's simple!

Wether you choose the standard cable lug version withM10 screw or the Tunnel Terminal optionas accessory -the connection of your cable or busbar is quick and simple!

## The BZM3 - not just Breaker!

Accessories are very important for the different applica-tions. Therefore also the BZM3 has the perfect accessories range available for you! Not only shunt trip releases, under-voltage 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



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### Technical data

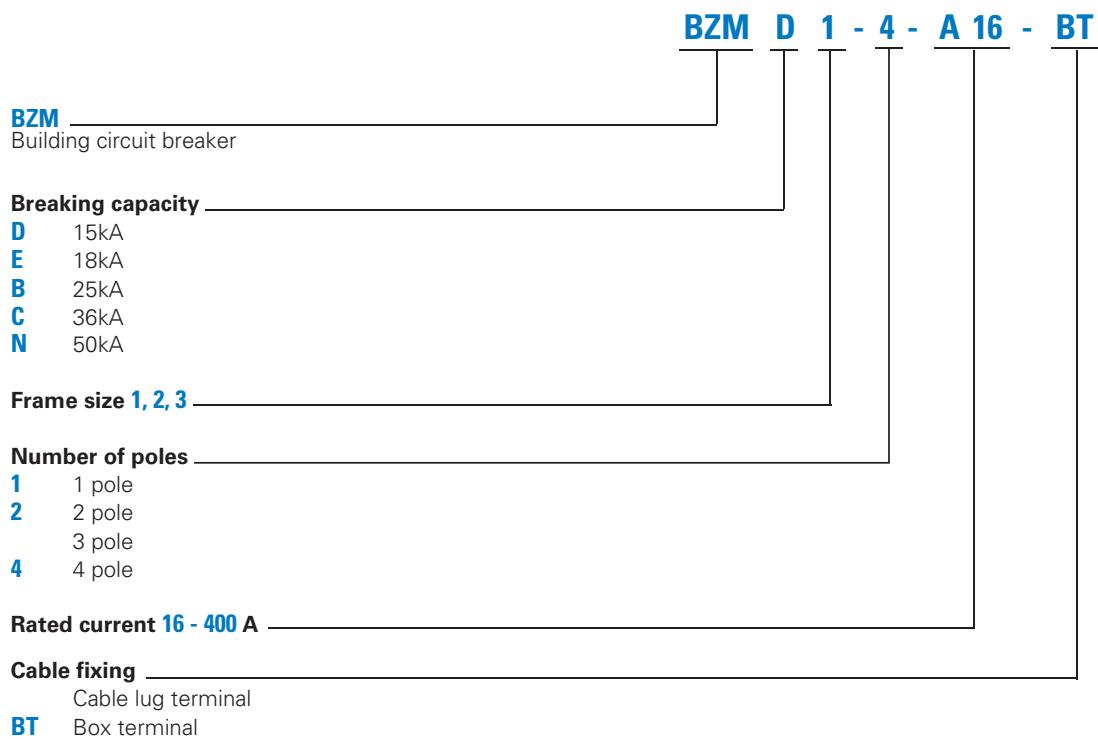
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# Circuit breakers BZM1

## 1-pole

### Protection of systems and cables

Rated current = rated uninterrupted current $I_n = I_u$ A	Short circuit releases / A $I >$	Economy switching capacity 18kA at 240 V 50/60 Hz
		<b>Part no.</b> Article no. 1 of each

### Cable lug terminal



16	256 - 384	<b>BZME1-1-A16</b> 166250
20	256 - 384	<b>BZME1-1-A20</b> 166251
25	320 - 480	<b>BZME1-1-A25</b> 166252
32	320 - 480	<b>BZME1-1-A32</b> 166253
40	320 - 480	<b>BZME1-1-A40</b> 166254
50	480 - 720	<b>BZME1-1-A50</b> 166255
63	480 - 720	<b>BZME1-1-A63</b> 166256
80	800 - 1200	<b>BZME1-1-A80</b> 166257
100	800 - 1200	<b>BZME1-1-A100</b> 166258

### Box terminal



16	256 - 384	<b>BZME1-1-A16-BT</b> 166259
20	256 - 384	<b>BZME1-1-A20-BT</b> 166260
25	320 - 480	<b>BZME1-1-A25-BT</b> 166261
32	320 - 480	<b>BZME1-1-A32-BT</b> 166262
40	320 - 480	<b>BZME1-1-A40-BT</b> 166263
50	480 - 720	<b>BZME1-1-A50-BT</b> 166264
63	480 - 720	<b>BZME1-1-A63-BT</b> 166265
80	800 - 1200	<b>BZME1-1-A80-BT</b> 166266
100	800 - 1200	<b>BZME1-1-A100-BT</b> 166267

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

## 2-pole

### Protection of systems and cables

Rated current = rated uninterrupted current $I_n = I_u$ A	Short circuit releases /	Domestic switching capacity 15kA at 415 V 50/60 Hz 30kA at 240 V 50/60 Hz	Economy switching capacity 18kA at 415 V 50/60 Hz 36kA at 240 V 50/60 Hz	Basic switching capacity 25kA at 415 V 50/60 Hz 50kA at 240 V 50/60 Hz
	A 	Article no. 1 of each	Article no. 1 of each	Article no. 1 of each

### Cable lug terminal



20	256 - 384	<b>BZMD1-2-A20</b> 129808	<b>BZME1-2-A20</b> 129914	<b>BZMB1-2-A20</b> 112585
25	320 - 480	<b>BZMD1-2-A25</b> 129880	<b>BZME1-2-A25</b> 129916	<b>BZMB1-2-A25</b> 112587
32	320 - 480	<b>BZMD1-2-A32</b> 129882	<b>BZME1-2-A32</b> 129918	<b>BZMB1-2-A32</b> 112589
40	320 - 480	<b>BZMD1-2-A40</b> 129884	<b>BZME1-2-A40</b> 129920	<b>BZMB1-2-A40</b> 112591
50	480 - 720	<b>BZMD1-2-A50</b> 129886	<b>BZME1-2-A50</b> 129922	<b>BZMB1-2-A50</b> 112593
63	480 - 720	<b>BZMD1-2-A63</b> 129888	<b>BZME1-2-A63</b> 129924	<b>BZMB1-2-A63</b> 112595
80	800 - 1200	<b>BZMD1-2-A80</b> 129890	<b>BZME1-2-A80</b> 129926	<b>BZMB1-2-A80</b> 112597
100	800 - 1200	<b>BZMD1-2-A100</b> 129892	<b>BZME1-2-A100</b> 129928	<b>BZMB1-2-A100</b> 112599
<hr/>				
Box terminal				
20	256 - 384	<b>BZMD1-2-A20-BT</b> 129896	<b>BZME1-2-A20-BT</b> 129932	<b>BZMB1-2-A20-BT</b> 112605
25	320 - 480	<b>BZMD1-2-A25-BT</b> 129898	<b>BZME1-2-A25-BT</b> 129934	<b>BZMB1-2-A25-BT</b> 112607
32	320 - 480	<b>BZMD1-2-A32-BT</b> 129900	<b>BZME1-2-A32-BT</b> 129936	<b>BZMB1-2-A32-BT</b> 112609
40	320 - 480	<b>BZMD1-2-A40-BT</b> 129902	<b>BZME1-2-A40-BT</b> 129938	<b>BZMB1-2-A40-BT</b> 112611
50	480 - 720	<b>BZMD1-2-A50-BT</b> 129904	<b>BZME1-2-A50-BT</b> 129940	<b>BZMB1-2-A50-BT</b> 112613
63	480 - 720	<b>BZMD1-2-A63-BT</b> 129906	<b>BZME1-2-A63-BT</b> 129942	<b>BZMB1-2-A63-BT</b> 112615
80	800 - 1200	<b>BZMD1-2-A80-BT</b> 129908	<b>BZME1-2-A80-BT</b> 129944	<b>BZMB1-2-A80-BT</b> 112617
100	800 - 1200	<b>BZMD1-2-A100-BT</b> 129910	<b>BZME1-2-A100-BT</b> 129946	<b>BZMB1-2-A100-BT</b> 112619

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

# Circuit breakers BZM1

## 3-pole

### Protection of systems and cables

Rated current = rated uninterrupted current $I_n = I_u$ A	Short circuit releases / A [I >]	Domestic switching capacity 15kA at 415 V 50/60 Hz <b>Part no.</b> Article no. 1 of each	Economy switching capacity 18kA at 415 V 50/60 Hz <b>Part no.</b> Article no. 1 of each	Basic switching capacity 25kA at 415 V 50/60 Hz <b>Part no.</b> Article no. 1 of each	Comfort switching capacity 36kA at 400 V 50/60 Hz <b>Part no.</b> Article no. 1 of each
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### Cable lug terminal



16	256 - 384	<b>BZMD1-A16</b> 111526	<b>BZME1-A16</b> 111527	<b>BZMB1-A16</b> 111528	
20	256 - 384	<b>BZMD1-A20</b> 111529	<b>BZME1-A20</b> 111530	<b>BZMB1-A20</b> 111531	
25	320 - 480	<b>BZMD1-A25</b> 111532	<b>BZME1-A25</b> 111533	<b>BZMB1-A25</b> 111534	
32	320 - 480	<b>BZMD1-A32</b> 111535	<b>BZME1-A32</b> 111536	<b>BZMB1-A32</b> 111537	<b>BZMC1-A32</b> 131268
40	320 - 480	<b>BZMD1-A40</b> 111538	<b>BZME1-A40</b> 111539	<b>BZMB1-A40</b> 111540	<b>BZMC1-A40</b> 131269
50	480 - 720	<b>BZMD1-A50</b> 111541	<b>BZME1-A50</b> 111542	<b>BZMB1-A50</b> 111543	<b>BZMC1-A50</b> 131270
63	480 - 720	<b>BZMD1-A63</b> 111544	<b>BZME1-A63</b> 111545	<b>BZMB1-A63</b> 111546	<b>BZMC1-A63</b> 131271
80	800 - 1200	<b>BZMD1-A80</b> 111547	<b>BZME1-A80</b> 111548	<b>BZMB1-A80</b> 111549	<b>BZMC1-A80</b> 131272
100	800 - 1200	<b>BZMD1-A100</b> 111550	<b>BZME1-A100</b> 111551	<b>BZMB1-A100</b> 111552	<b>BZMC1-A100</b> 131273
125	800 - 1200	<b>BZMD1-A125</b> 112491	<b>BZME1-A125</b> 112493		

### Box terminal



16	256 - 384	<b>BZMD1-A16-BT</b> 111553	<b>BZME1-A16-BT</b> 111554	<b>BZMB1-A16-BT</b> 111555	
20	256 - 384	<b>BZMD1-A20-BT</b> 111556	<b>BZME1-A20-BT</b> 111557	<b>BZMB1-A20-BT</b> 111558	
25	320 - 480	<b>BZMD1-A25-BT</b> 111559	<b>BZME1-A25-BT</b> 111560	<b>BZMB1-A25-BT</b> 111561	
32	320 - 480	<b>BZMD1-A32-BT</b> 111562	<b>BZME1-A32-BT</b> 111563	<b>BZMB1-A32-BT</b> 111564	<b>BZMC1-A32-BT</b> 131276
40	320 - 480	<b>BZMD1-A40-BT</b> 111565	<b>BZME1-A40-BT</b> 111566	<b>BZMB1-A40-BT</b> 111567	<b>BZMC1-A40-BT</b> 131277
50	480 - 720	<b>BZMD1-A50-BT</b> 111568	<b>BZME1-A50-BT</b> 111569	<b>BZMB1-A50-BT</b> 111570	<b>BZMC1-A50-BT</b> 131278
63	480 - 720	<b>BZMD1-A63-BT</b> 111571	<b>BZME1-A63-BT</b> 111572	<b>BZMB1-A63-BT</b> 111573	<b>BZMC1-A63-BT</b> 131279
80	800 - 1200	<b>BZMD1-A80-BT</b> 111574	<b>BZME1-A80-BT</b> 111575	<b>BZMB1-A80-BT</b> 111576	<b>BZMC1-A80-BT</b> 131280
100	800 - 1200	<b>BZMD1-A100-BT</b> 111577	<b>BZME1-A100-BT</b> 111578	<b>BZMB1-A100-BT</b> 111579	<b>BZMC1-A100-BT</b> 131281
125	800 - 1200	<b>BZMD1-A125-BT</b> 112497	<b>BZME1-A125-BT</b> 112499		

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

## 4-pole

### Protection of systems and cables

Rated current  
= rated  
uninterrupted  
current  
 $I_n = I_u$   
A

Short circuit  
releases  
/

Domestic switching  
capacity 15kA  
at 415 V 50/60 Hz

Economy switching  
capacity 18kA  
at 415 V 50/60 Hz

Part no.  
Article no.  
1 of each

Basic switching  
capacity 25kA  
at 415 V 50/60 Hz

Part no.  
Article no.  
1 of each

### Cable lug terminal



		<b>BZMD1-4-A16</b> 121776	<b>BZME1-4-A16</b> 112503	<b>BZMB1-4-A16</b> 112505
16	256 - 384	<b>BZMD1-4-A20</b> 121778	<b>BZME1-4-A20</b> 112507	<b>BZMB1-4-A20</b> 112509
20	256 - 384	<b>BZMD1-4-A25</b> 121940	<b>BZME1-4-A25</b> 112511	<b>BZMB1-4-A25</b> 112513
25	320 - 480	<b>BZMD1-4-A32</b> 121942	<b>BZME1-4-A32</b> 112515	<b>BZMB1-4-A32</b> 112517
32	320 - 480	<b>BZMD1-4-A40</b> 121944	<b>BZME1-4-A40</b> 112519	<b>BZMB1-4-A40</b> 112521
40	320 - 480	<b>BZMD1-4-A50</b> 121946	<b>BZME1-4-A50</b> 112523	<b>BZMB1-4-A50</b> 112525
50	480 - 720	<b>BZMD1-4-A63</b> 121948	<b>BZME1-4-A63</b> 112527	<b>BZMB1-4-A63</b> 112529
63	480 - 720	<b>BZMD1-4-A80</b> 121950	<b>BZME1-4-A80</b> 112531	<b>BZMB1-4-A80</b> 112533
80	800 - 1200	<b>BZMD1-4-A100</b> 121952	<b>BZME1-4-A100</b> 112535	<b>BZMB1-4-A100</b> 112537
100	800 - 1200	<b>BZMD1-4-A16-BT</b> 121956	<b>BZME1-4-A16-BT</b> 112543	<b>BZMB1-4-A16-BT</b> 112545
16	256 - 384	<b>BZMD1-4-A20-BT</b> 121958	<b>BZME1-4-A20-BT</b> 112547	<b>BZMB1-4-A20-BT</b> 112549
20	256 - 384	<b>BZMD1-4-A25-BT</b> 121960	<b>BZME1-4-A25-BT</b> 112551	<b>BZMB1-4-A25-BT</b> 112553
25	320 - 480	<b>BZMD1-4-A32-BT</b> 121962	<b>BZME1-4-A32-BT</b> 112555	<b>BZMB1-4-A32-BT</b> 112557
32	320 - 480	<b>BZMD1-4-A40-BT</b> 121964	<b>BZME1-4-A40-BT</b> 112559	<b>BZMB1-4-A40-BT</b> 112561
40	320 - 480	<b>BZMD1-4-A50-BT</b> 121966	<b>BZME1-4-A50-BT</b> 112563	<b>BZMB1-4-A50-BT</b> 112565
50	480 - 720	<b>BZMD1-4-A63-BT</b> 121968	<b>BZME1-4-A63-BT</b> 112567	<b>BZMB1-4-A63-BT</b> 112569
63	480 - 720	<b>BZMD1-4-A80-BT</b> 121970	<b>BZME1-4-A80-BT</b> 112571	<b>BZMB1-4-A80-BT</b> 112573
80	800 - 1200	<b>BZMD1-4-A100-BT</b> 121972	<b>BZME1-4-A100-BT</b> 112575	<b>BZMB1-4-A100-BT</b> 112577

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

# Circuit breakers BZM2

## 3-pole

### Protection of systems and cables

Rated current = rated uninterrupted current $I_n = I_u$ A	Short circuit releases /	Basic switching capacity 25kA at 415 V 50/60 Hz	Comfort switching capacity 36kA at 415 V 50/60 Hz
	A $I >$	<b>Part no.</b> Article no. 1 of each	<b>Part no.</b> Article no. 1 of each

### Cable lug terminal



125	1400 - 2100	<b>BZMB2-A125</b> 119735	<b>BZMC2-A125</b> 121804
160	1400 - 2100	<b>BZMB2-A160</b> 116973	<b>BZMC2-A160</b> 121805
200	1400 - 2100	<b>BZMB2-A200</b> 116974	<b>BZMC2-A200</b> 121806
250	1400 - 2100	<b>BZMB2-A250</b> 116975	<b>BZMC2-A250</b> 121807

### Cable lug terminal (without overload release)



250	1400 - 2100	<b>BZMB2-S250</b> 131668
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Note: 2 pieces phase barriers BZM2-XKP included in delivery

**Cable lug terminal**



**3-pole**

**Protection of systems and cables**

Rated current = rated uninterrupted current $I_n = I_u$ A	Short circuit releases I A $  I >  $	Basic switching capacity 25kA at 415 V 50/60 Hz
--	--	---

Comfort switching capacity 36kA at 415 V 50/60 Hz
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Normal switching capacity 50kA at 415 V 50/60 Hz
--

		<b>Part no.</b>	<b>Part no.</b>	<b>Part no.</b>
		Article no.	Article no.	Article no.
		1 of each	1 of each	1 of each
250	2600-3800	<b>BZMB3-A250</b> 158276	<b>BZMC3-A250</b> 158280	<b>BZMN3-A250</b> 158284
320	2600-3800	<b>BZMB3-A320</b> 158277	<b>BZMC3-A320</b> 158281	<b>BZMN3-A320</b> 158285
350	2600-3800	<b>BZMB3-A350</b> 158278	<b>BZMC3-A350</b> 158282	<b>BZMN3-A350</b> 158286
400	2600-3800	<b>BZMB3-A400</b> 158279	<b>BZMC3-A400</b> 158283	<b>BZMN3-A400</b> 158287

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

# Accessories BZM1



## Auxiliary contacts (only for 2, 3 and 4pole)

Description	Part no.	Std.pack
Article no.		
1 NO	<b>BZM1-K10</b> 216376	20
1 NC	<b>BZM1-K01</b> 216378	20



## Phase barrier

Description	Part no.	Std.pack
Article no.		
	<b>BZM1-XKP</b> 109760	1



## Undervoltage release (only 3 and 4pole)

Description	Part no.	Std.pack
Article no.		
230-240VAC	<b>BZM1-XU230-240VAC</b> 158053	1
400-440VAC	<b>BZM1-XU400-415VAC</b> 158054	1
24VDC	<b>BZM1-XU24VDC</b> 158055	1



## Shunt trip release (only 3 and 4pole)

Description	Part no.	Std.pack
Article no.		
230-240VAC	<b>BZM1-XA230-240VAC</b> 158056	1
400-440VAC	<b>BZM1-XA400-415VAC</b> 158057	1
24VDC	<b>BZM1-XA24VDC</b> 158058	1



## Terminal cover (only for 1pole BZM)

Description	Part no.	Std.pack
Article no.		
for 1pole BZM	<b>BZM1-1-XKSA</b> 166268	1
for 2pole BZM	<b>BZM1-2-XKSA</b> 112484	1
for 3pole BZM	<b>BZM1-XKSA</b> 112482	1
for 4pole BZM	<b>BZM1-4-XKSA</b> 112483	1



## Rotary handle (only for 2, 3 and 4pole)

Description	Part no.	Std.pack
Article no.		
	<b>BZM1-XDV</b> 113168	1



## Door rotary handle (only for 2, 3 and 4pole)

Description	Part no.	Std.pack
Article no.		
	<b>BZM1-XTVD</b> 112485	1



## Extension axle (only for XTVD)

Description	Part no.	Std.pack
Length 400 mm	<b>BZM1-XV4</b> 112486	1
Length 600 mm	<b>BZM1-XV6</b> 112487	1



## DIN-rail-adapter

Description	Part no.	Std.pack
Article no.		
For 2-pole BZM	<b>BZM1-2-XC35</b> 112489	1
For 3- a.4-pole BZM	<b>BZM1-XC35</b> 112488	1



## Cable Lug

Description	Part no.	Std.pack
Article no.		
35 mm <sup>2</sup> / M6	<b>BZM1-XKS35</b> 113609	10
50 mm <sup>2</sup> / M6	<b>BZM1-XKS50</b> 113750	10



## BZM1 Locking Device

Description	Part no.	Std.pack
Article no.		
	<b>BZM1-XKAV</b> 152899	1

**Auxiliary contacts**

Description	Part no.	Std.pack
	Article no.	
1 NO	<b>M22-K10</b> 216376	20
1 NC	<b>M22-K01</b> 216378	20

**Phase barrier**

Description	Part no.	Std.pack
	Article no.	
	<b>BZM2-XKP</b> 118720	1

**Undervoltage release**

Description	Part no.	Std.pack
	Article no.	
230-240VAC	<b>BZM1-3-XU230-240VAC</b> 158053	1
400-440VAC	<b>BZM1-3-XU400-415VAC</b> 158054	1
24VDC	<b>BZM1-3-XU24VDC</b> 158055	1

**Shunt trip release**

Description	Part no.	Std.pack
	Article no.	
230-240VAC	<b>BZM1-3-XA230-240VAC</b> 158056	1
400-440VAC	<b>BZM1-3-XA400-440VAC</b> 158057	1
24VDC	<b>BZM1-3-XA24VDC</b> 158058	1

**Terminal cover**

Description	Part no.	Std.pack
	Article no.	
	<b>BZM2-XKSA</b> 118727	1

**Interlock Device**

Description	Part no.	Std.pack
	Article no.	
	<b>BZM2-XKAV</b> 131669	1

## Accessories BZM3



### Auxiliary contacts

Description	Part no.	Std.pack
	Article no.	
1 NO	<b>M22-K10</b> 216376	20
1 NC	<b>M22-K01</b> 216378	20



### Phase barrier

Description	Part no.	Std.pack
	Article no.	
	<b>BZM3-XKP</b> 158300	1



### Undervoltage release

Description	Part no.	Std.pack
	Article no.	
230-240VAC	<b>BZM1-3-XU230-240VAC</b> 158053	1
400-440VAC	<b>BZM1-3-XU400-415VAC</b> 158054	1
24VDC	<b>BZM1-3-XU24VDC</b> 158055	1



### Shunt trip release

Description	Part no.	Std.pack
	Article no.	
230-240VAC	<b>BZM1-3-XA230-240VAC</b> 158056	1
400-440VAC	<b>BZM1-3-XA400-440VAC</b> 158057	1
24VDC	<b>BZM1-3-XA24VDC</b> 158058	1



### Terminal cover

Description	Part no.	Std.pack
	Article no.	
	<b>BZM3-XKSA</b> 158305	1



### Rear connection

Description	Part no.	Std.pack
	Article no.	
	<b>BZM3-XKR</b> 158301	1



### Spreaders (for one side of the breaker)

Description	Part no.	Std.pack
	Article no.	
	<b>BZM3-XKV70KB</b> 158302	1



### Tunnel terminal (for one side of the breaker)

Description	Part no.	Std.pack
	Article no.	
185 mm <sup>2</sup>	<b>BZM3-XKA1</b> 158303	1
240 mm <sup>2</sup>	<b>BZM1-XKA2</b> 158304	1



### Cable lug

Description	Part no.	Std.pack
	Article no.	
185 mm <sup>2</sup>	<b>NZM3-XKS185</b> 260040	3
240 mm <sup>2</sup>	<b>NZM3-XKS240</b> 260041	3

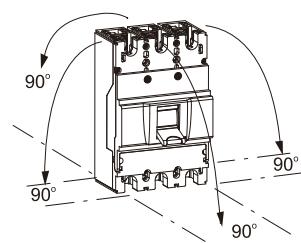
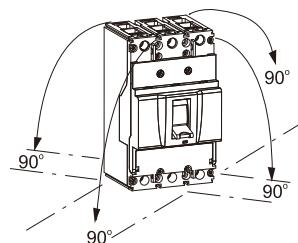
## Mechanical specifications

	<b>Rated current max.125 A</b> BZM1	<b>Rated current max.250 A</b> BZM2
Standards	IEC/EN 60947-2	IEC/EN 60947-2
Number of poles	1, 2, 3, 4	3
Device width	mm 1pole:25, 2pole: 50, 3pole: 75, 4pole: 100	3-pole: 105
Frame size	mm 45	45
Socket size	mm 130	165
Device depth	mm 84.7	91.5
Terminals	Lift terminal, ring tongue connector	Ring tongue connector
Terminal capacity lift terminal	mm rigid (solid/stranded) and flexible wire (2.5 - 50)	-
Terminal capacity ring tongue	mm <sup>2</sup> Diameter: max. 15	Diameter: max. 24
Busbar thickness	mm max. 8	max. 8
Terminal screw	M6 (Pozidriv PZ2)	M8
Terminal torque	Nm 4	14
Degree of Protection (DIN VDE 0470)	Built-in behind panel IP40	Built-in behind panel IP40
Climatic conditions	acc. to IEC 68-2(25..55°C/90..95% RH)	acc. to IEC 68-2(25..55°C/90..95% RH)

## Ambient temperature

Storage	°C -35 ... +85	-35 ... +85
Operation	°C -25 ... +70	-25 ... +70

## Mounting Positions



## Protection System

Enclosures	With insulating surround: IP40	With insulating surround: IP40
Number of mechanical operating cycles	> 10.000	> 8.000
Pollution degree	3	3

## Electrical specifications

	<b>1pole</b>	<b>2,3 and 4pole</b>	
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	$I_n$ A 16 up to 100	16 up to 125	125, 160, 200, 250
Rated impulse withstand voltage	$U_{imp}$ V 4.000 (1.2/50 µsec)	6.000 (1.2/50 µsec)	6.000 (1.2/50 µsec)
Overvoltage category	III	III	III
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

Notes: <sup>1)</sup>not valid for BZMB2-S250

# Technical data BZM3

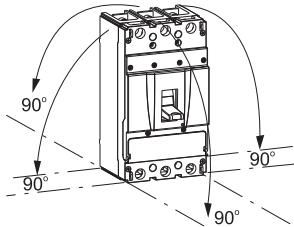
## Mechanical specifications

**Rated current max. 400 A**  
BZM3

Standards	IEC/EN 60947-2	
Number of poles	3	
Device width	mm	3-pole: 140
Frame size	mm	95
Socket size	mm	255
Device depth	mm	110
Terminals		
Terminal capacity ring tongue		
Terminal capacity Tunnel Terminal XKA1	mm <sup>2</sup>	max. 350A
Copper Cable/Aluminium cable:	1 x 16 - 185	
Terminal capacity Tunnel Terminal XKA2	mm <sup>2</sup>	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 (25..55°C / 90..95% RH)	

## Ambient temperature

Storage	°C	-35 ... +85
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 <sub>e</sub>	V AC	440, 50/60 Hz
Rated current	I <sub>n</sub>	A	250, 320, 350, 400
Rated impulse withstand voltage	U <sub>imp</sub>	V	8.000 (1.2/50μsec)
Overvoltage category	III		
Rated insulation voltage	U <sub>i</sub>	V	690
For use in IT electrical power networks	V		
Direction of incoming supply	As required		
Number of electrical operating cycles	> 1.000		

## Tripping characteristic

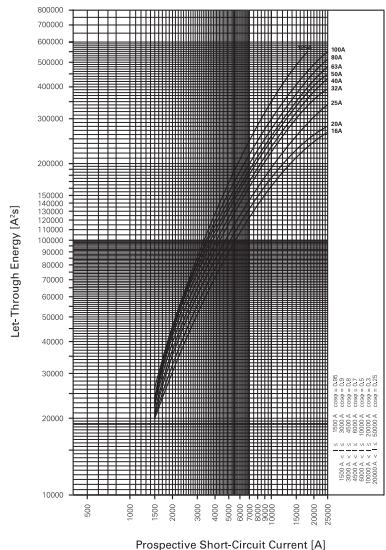
Conventional non-tripping current	I <sub>nt</sub> = 1.05 I <sub>n</sub>	
Conventional tripping current	I <sub>t</sub> = 1.30 I <sub>n</sub>	
Reference temperature	°C	40

## Switching capacity

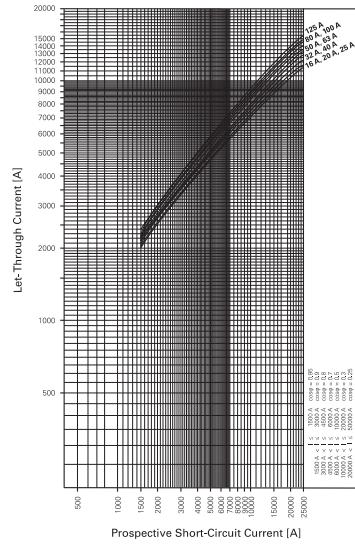
	BZMD1	BZME1	BZMB1	BZMC1	BZMB2	BZMC2
<b>Rated short-circuit breaking capacity</b>						
$I_{CU}$ to IEC/EN 60947 operating sequence 0-t-CO, 130 V 50/60 Hz	$I_{CU}$ kA	30	36	50	-	-
0-t-CO, 240 V 50/60 Hz	$I_{CU}$ kA	30	36	50	-	-
<b>0-t-CO, 400/415 V 50/60 Hz<sup>1)</sup></b>	<b><math>I_{CU}</math> kA</b>	<b>15</b>	<b>18</b>	<b>25</b>	<b>36/400VAC</b>	<b>25</b>
$I_{CS}$ to IEC/EN 60947 operating sequence 0-t-CO-t-CO, 130 V 50/60 Hz	$I_{CS}$ kA	15	18	25	-	-
0-t-CO-t-CO, 240 V 50/60 Hz	$I_{CS}$ kA	15	18	25	-	-
<b>0-t-CO-t-CO, 400/415 V 50/60 Hz<sup>1)</sup></b>	<b><math>I_{CS}</math> kA</b>	<b>7.5</b>	<b>9</b>	<b>12.5</b>	<b>18/9*/400VAC</b>	<b>12.5</b>
Utilization category to IEC/EN 60947-2		A	A	A	A	A
*9kA/400VAC at IN=80, 100A						

Notes <sup>1)</sup> for BZM1 1pole 230/400 V, 50/60Hz

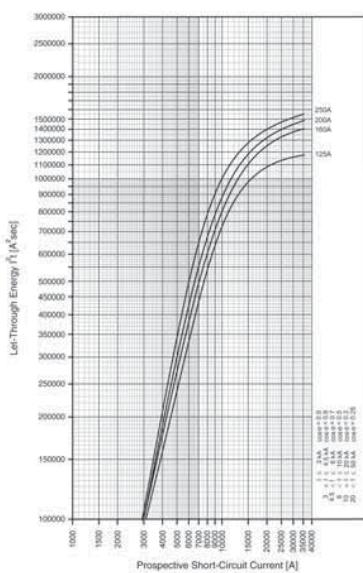
## Let-through energy BZM1



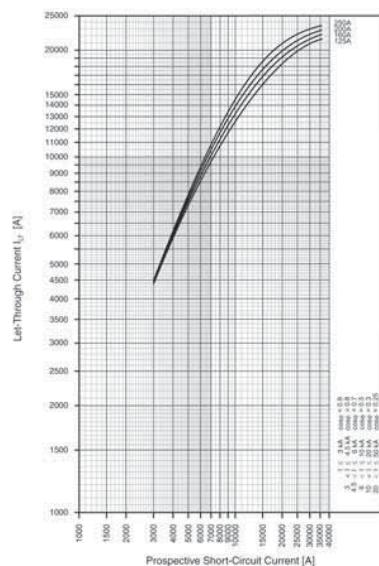
## Let-through current BZM1



## Let-through energy BZM2



## Let-through current BZM2

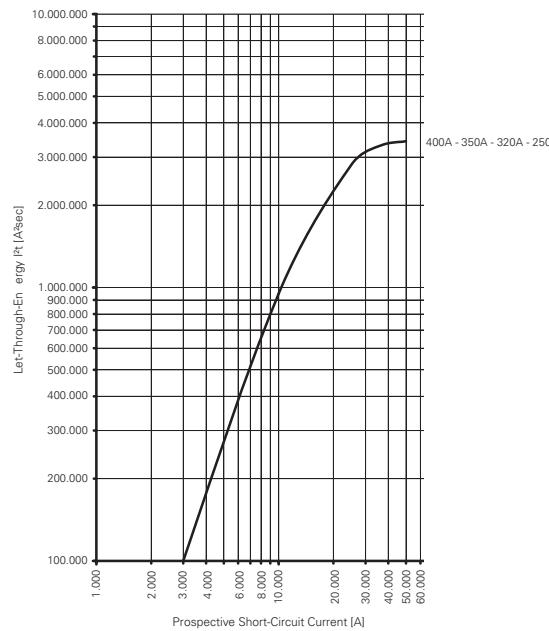


# Technical data BZM3

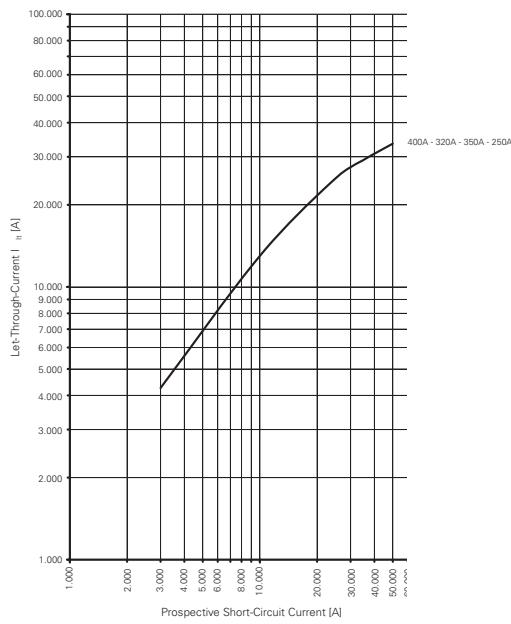
## Switching capacity

	BZMB3	BZMC3	BZMN3
<b>Rated short-circuit breaking capacity</b>			
$I_{cu}$ to IEC/EN 60947 operating sequence 0-t-C0, 240 V 50/ 60 Hz	Icu kA	50	85
<b>0-t-C0, 400/415 V 50/60 Hz</b>	<b>Icu kA</b>	<b>25</b>	<b>36</b>
0-t-C0, 440 V 50/ 60 Hz	Icu kA	20	25
$I_{cs}$ to IEC/EN 60947 operating sequence 0-t-C0, 240 V 50/ 60 Hz	Icu kA	25	42,5
<b>0-t-C0-t-C0, 400/415 V 50/60 Hz</b>	<b>Ics kA</b>	<b>12.5</b>	<b>18</b>
0-t-C0, 440 V 50/ 60 Hz	Icu kA	10	12,5
Utilization category to IEC/EN 60947-2	A	A	A

## Let-through energy BZM3



## Let-through current BZM3



**Between incoming circuit-breaker NZM (B)(C)(N)(H) and outgoing circuit-breaker BZM (D)(E)(B)(C)**

<b>Outgoing circuit breaker</b>	<b>Incoming circuit-breaker</b>				<b>NZM2</b>			
	<b>NZM1</b>				<b>NZM2</b>			
	$I_n$	up to 160A			$I_n$	up to 250A		
	$I_{cu}$ (415 V)	25k	36k	50k	100k	25k	36k	50k
BZMD1	15 kA	up to 125 A	18	25	36	40	18	25
BZME1	18 kA	up to 125 A	20	30	40	50	20	30
BZMB1	25 kA	up to 125 A	25	36	50	70	25	36
BZMC1*	36 kA*	up to 100 A*	25*	36*	50*	70*	25*	36*
BZME2	18 kA	up to 250 A	-	-	-	-	20	30
BZMB2	25 kA	up to 250 A	-	-	-	-	36	50
BZMC2	36 kA	up to 250 A	-	-	-	-	-	60

\*  $I_{cu}$ (400 V)

# Technical data

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

PLHT-I <sub>n</sub> /1(2,3,4)/B(C) + BZMB1	
I <sub>n</sub> [A]	U <sub>e</sub> = 230/400 V, U <sub>e</sub> = 240/415 V
20	
25	
32	
40	
50	
63	18 kA(BZMB1-A125)
80	
100	25 kA(BZMB1-A16...-A100)
125	

PLHT-I <sub>n</sub> /1(2,3,4)/B(C) + BZMC1	
I <sub>n</sub> [A]	U <sub>e</sub> = 230/400 V
20	
25	
32	
40	
50	
63	
80	25 kA
100	

PLHT-I <sub>n</sub> /1(2,3,4)/B(C) + BZMD1	
I <sub>n</sub> [A]	U <sub>e</sub> = 230/400 V, U <sub>e</sub> = 240/415 V
20	
25	
32	
40	
50	
63	15 kA
80	
100	
125	

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

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U<sub>e</sub> = 400/415V: I<sub>Q1</sub> (BZMD1) = 15 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 400/415V: I<sub>Q1</sub> (BZME1) = 18 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 400/415V: I<sub>Q1</sub> (BZMB1) = 25 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 400V: I<sub>Q1</sub> (BZMC1) = 36 kA (acc. to IEC/EN 60947-2)

U<sub>e</sub> = 240/415V: I<sub>Q1</sub> (PLHT-20/..63/1..4/B,C,D) = 25 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 240/415V: I<sub>Q1</sub> (PLHT-80/1..4/B,C,D, PLHT-100/1..4/B,C) = 20 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 240/415V: I<sub>Q1</sub> (PLHT-100/1..4/D, PLHT-125/1..4/B,C) = 15 kA (acc. to IEC/EN 60947-2)

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

## Back-up protection PLHT / BZM(B)(C)2

PLHT-I <sub>n</sub> /1(2,3,4)/B(C) + BZMB2	
I <sub>n</sub> [A]	U <sub>e</sub> = 230/400 V, U <sub>e</sub> = 240/415 V
20	
25	
32	
40	
50	
63	25 kA
80	
100	
125	

PLHT-I <sub>n</sub> /1(2,3,4)/B(C) + BZMC2	
I <sub>n</sub> [A]	U <sub>e</sub> = 230/400 V, U <sub>e</sub> = 240/415 V
20	
25	
32	
40	
50	
63	
80	25 kA
100	
125	

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U<sub>e</sub> = 400/415V: I<sub>Q1</sub> (BZMD2) = 15 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 400/415V: I<sub>Q1</sub> (BZME2) = 18 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 400/415V: I<sub>Q1</sub> (BZMB2) = 25 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 400/415V: I<sub>Q1</sub> (BZMC2) = 36 kA (acc. to IEC/EN 60947-2)

U<sub>e</sub> = 240/415V: I<sub>Q1</sub> (PLHT-20/..63/1..4/B,C,D) = 25 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 240/415V: I<sub>Q1</sub> (PLHT-80/1..4/B,C,D, PLHT-100/1..4/B,C) = 20 kA (acc. to IEC/EN 60947-2)  
U<sub>e</sub> = 240/415V: I<sub>Q1</sub> (PLHT-100/1..4/D, PLHT-125/1..4/B,C) = 15 kA (acc. to IEC/EN 60947-2)

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

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

FAZ/PLSM-I <sub>n</sub> /1(1N,2,3,3N,4)/B(C)(D) + BZMB1			
I <sub>n</sub> [A]	U <sub>e</sub> = 230/400 V, U <sub>e</sub> = 240/415 V		
	Type B	Type C	Type D
0.16			x
0.25	x		
0.5			
0.75		x	
1			
1.5			
1.6			
2			
2.5			
3			
3.5			
4			
5			
6			25 kA(up to -A100)
8			18 kA(up to -A125)
10			
12			
13			
15			
16			
20			
25			
32			
40			
50			
63			

FAZ/PLSM-I <sub>n</sub> /1(1N,2,3,3N,4)/B(C)(D) + BZMC1			
I <sub>n</sub> [A]	U <sub>e</sub> = 230/400 V		
	Type B	Type C	Type D
0.16			x
0.25	x		
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			
63			

FAZ/PLSM-I <sub>n</sub> /1(1N,2,3,3N,4)/B(C)(D) + BZMD1			
I <sub>n</sub> [A]	U <sub>e</sub> = 230/400 V, U <sub>e</sub> = 240/415 V		
	Type B	Type C	Type D
0.16			x
0.25	x		
0.5		x	
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 <sub>n</sub> /1(1N,2,3,3N,4)/B(C)(D) + BZME1			
I <sub>n</sub> [A]	U <sub>e</sub> = 230/400 V, U <sub>e</sub> = 240/415 V		
	Type B	Type C	Type D
0.16			x
0.25	x		
0.5			x
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			

U<sub>e</sub> = 400/415V: I<sub>CU</sub> (BZMD1) = 15 kA (acc. to IEC/EN 60947-2)

U<sub>e</sub> = 400/415V: I<sub>CU</sub> (BZME1) = 18 kA (acc. to IEC/EN 60947-2)

U<sub>e</sub> = 400/415V: I<sub>CU</sub> (BZMB1) = 25 kA (acc. to IEC/EN 60947-2)

U<sub>e</sub> = 400V: I<sub>CU</sub> (BZMC1) = 36 kA (acc. to IEC/EN 60947-2)

DG01285 Ver 2.07/11

# Technical data

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

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

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

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

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

$U_e = 240/415\text{ V}$ :  $I_{CU}$  (PLSM all types except D50, D63) = 15 kA (acc. to IEC/EN 60947-2)

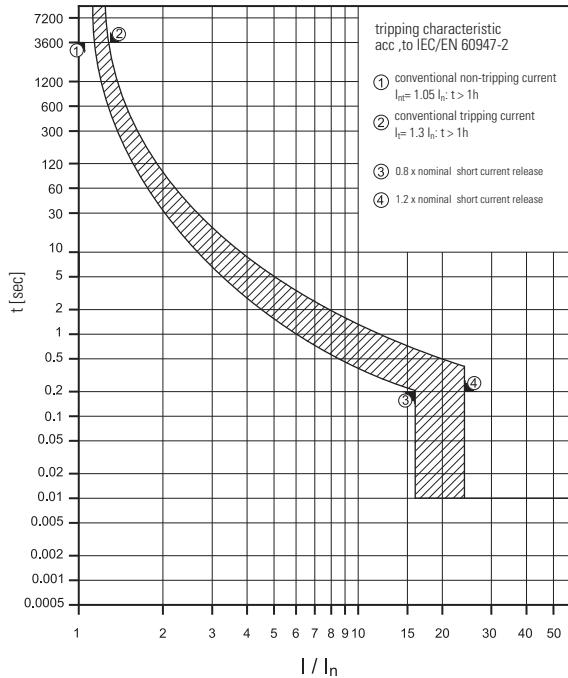
$U_e = 240/415\text{ V}$ :  $I_{CU}$  (PLSM type D50, D63) = 10 kA (acc. to IEC/EN 60947-2)

Back-up tests acc. to IEC/EN 60947-2, App. A.6:  $U = 1.05 \cdot U_e (0 - t - CO)$

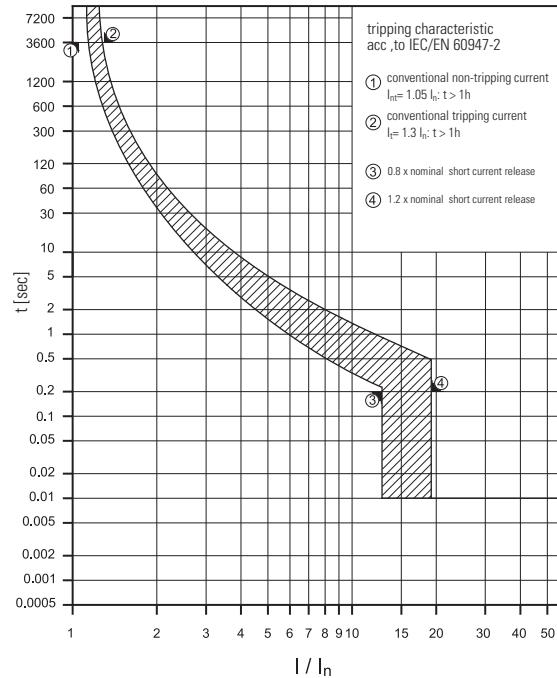
DS01728 (vers. 1-16/n)

# Tripping current curves BZM1

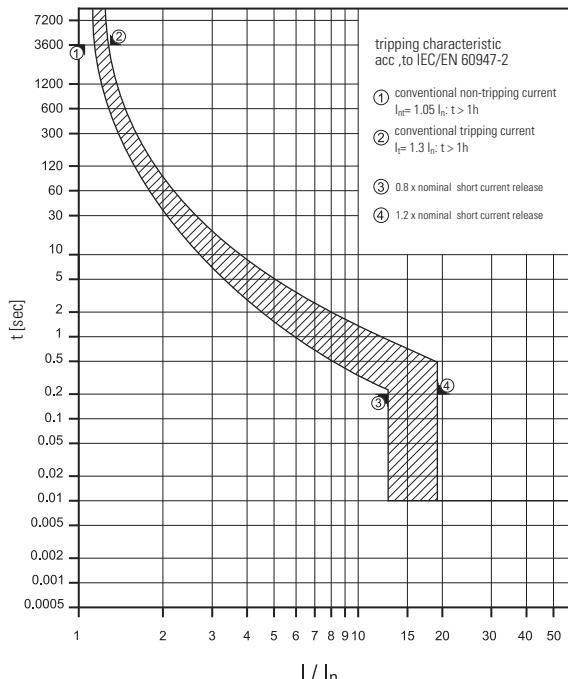
Tripping curve BZM1 16A, 3-pole



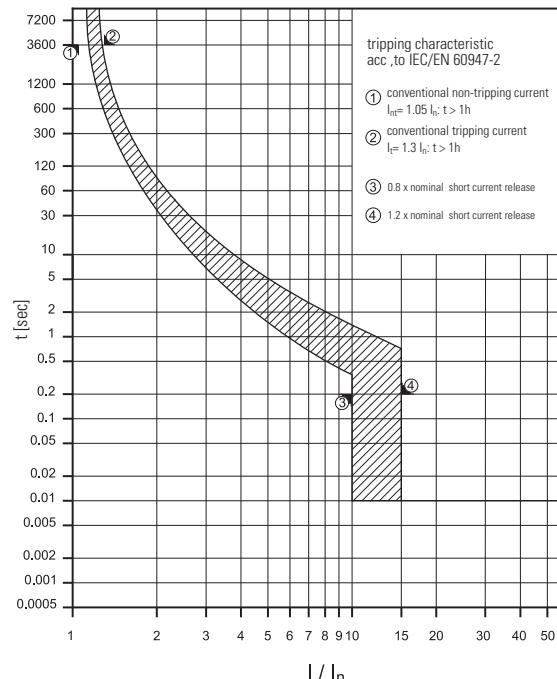
Tripping curve BZM1 20A, 3-pole



Tripping curve BZM1 25A, 3-pole

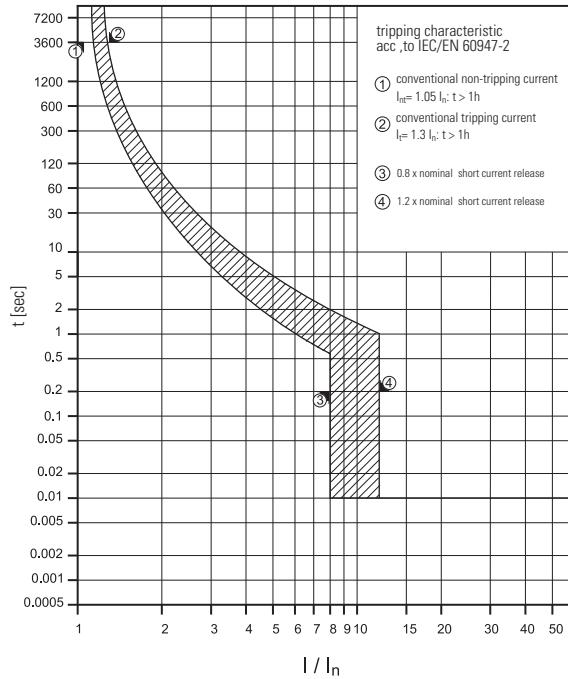


Tripping curve BZM1 32A, 3-pole

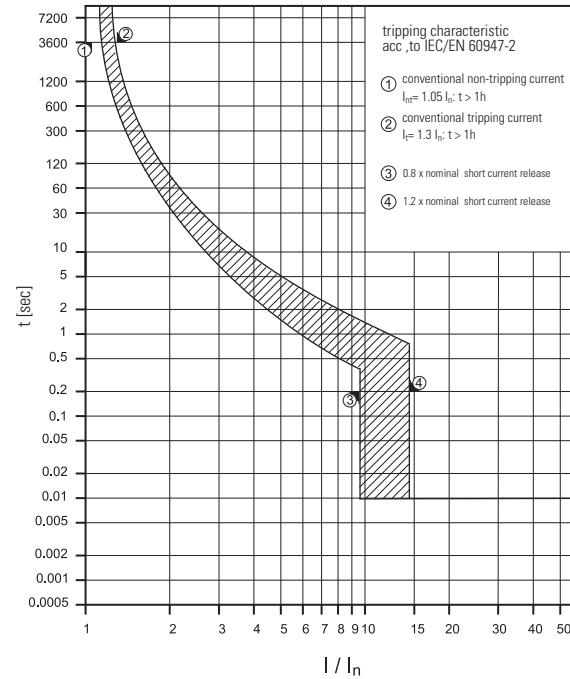


# Tripping current curves BZM1

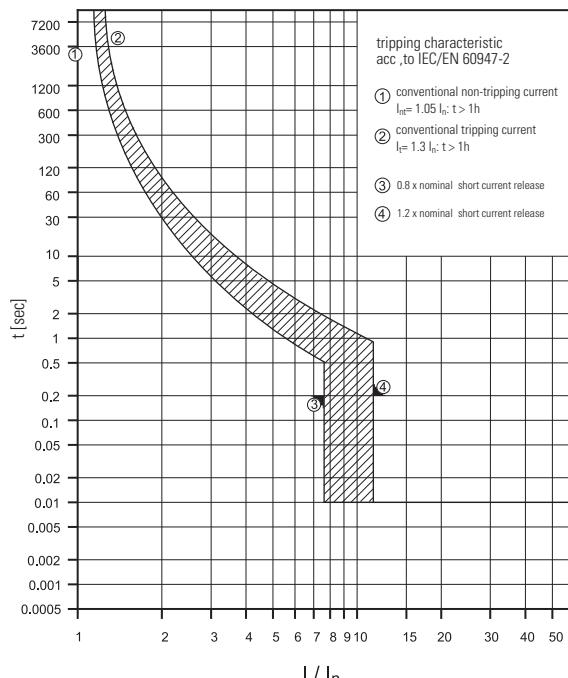
Tripping curve BZM1 40A,3-pole



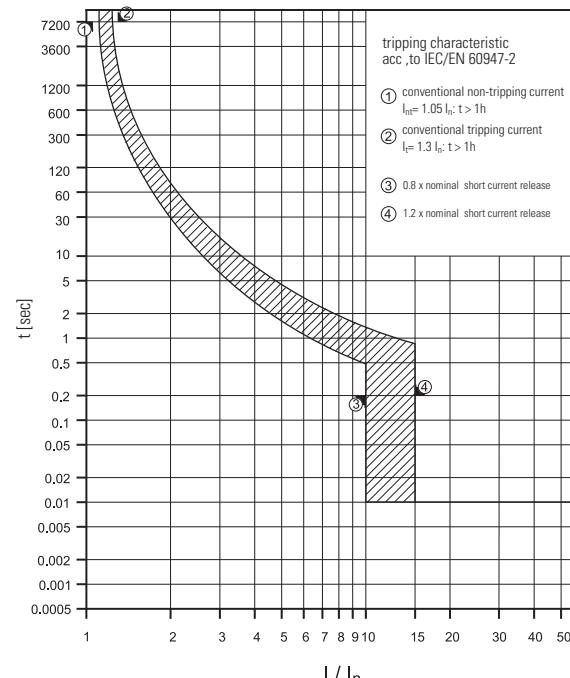
Tripping curve BZM1 50A,3-pole



Tripping curve BZM 63A,3-pole

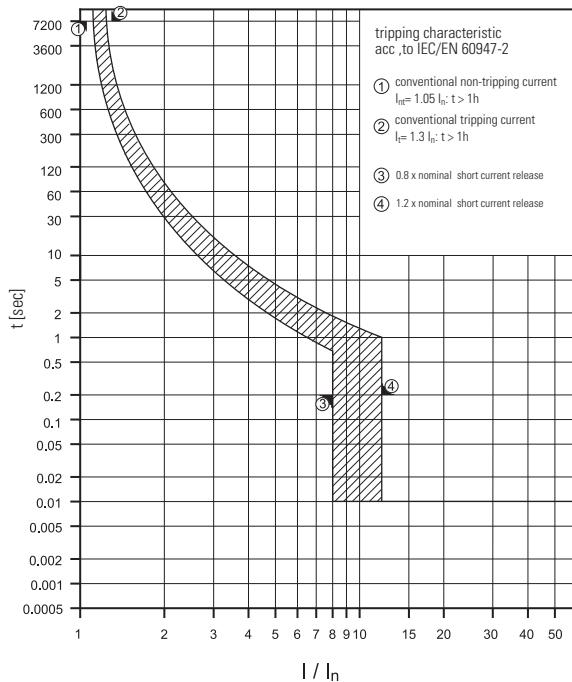


Tripping curve BZM1 80A,3-pole

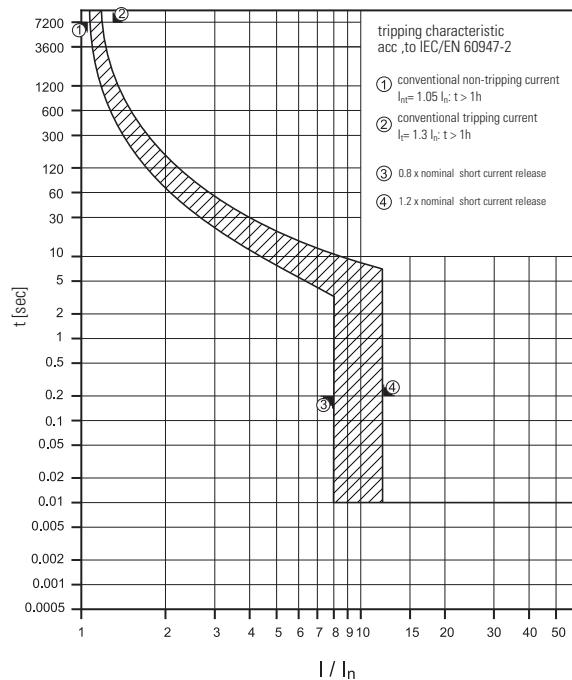


# Tripping current curves BZM1, BZM2

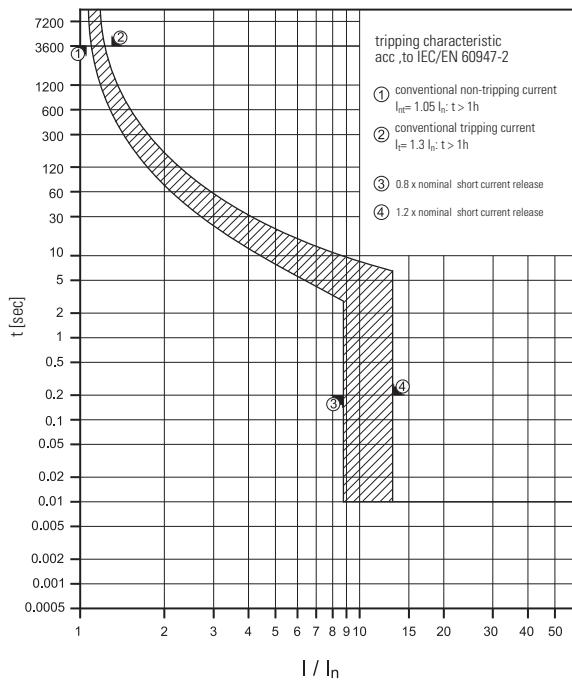
Tripping curve BZM1 100A,3-pole



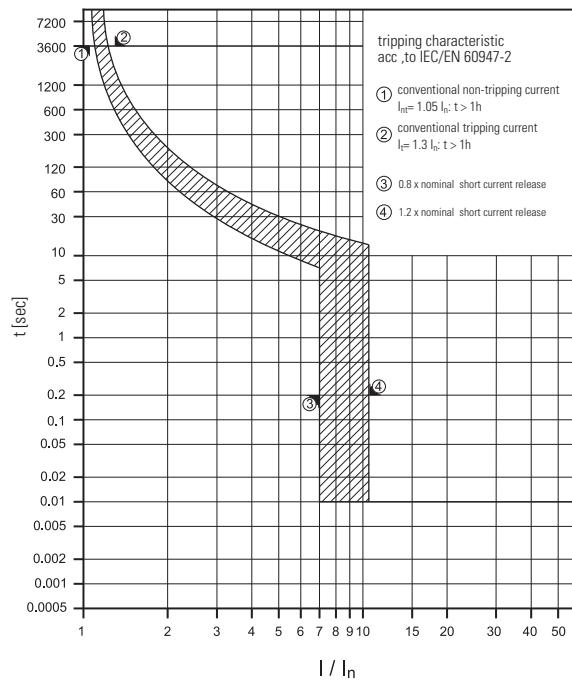
Tripping curve BZM2 125A



Tripping curve BZM2 160A



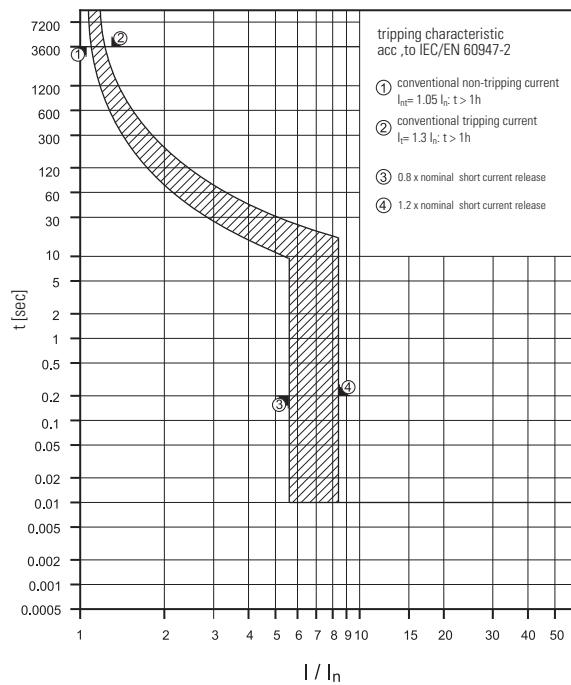
Tripping curve BZM2 200A



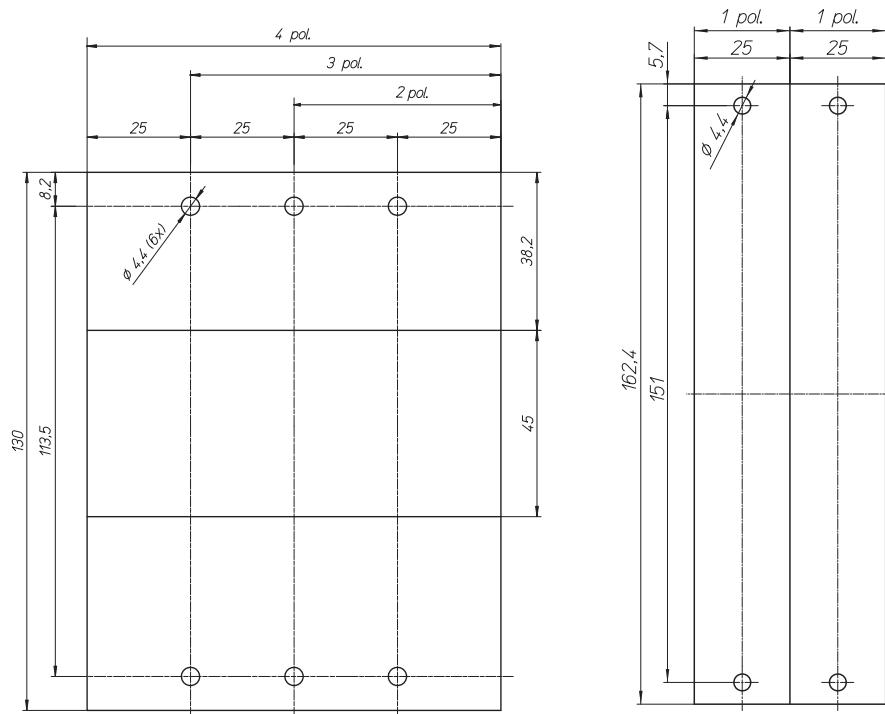
## Tripping current curves BZM2

### Mounting holes BZM1

#### Tripping curve BZM2 250A

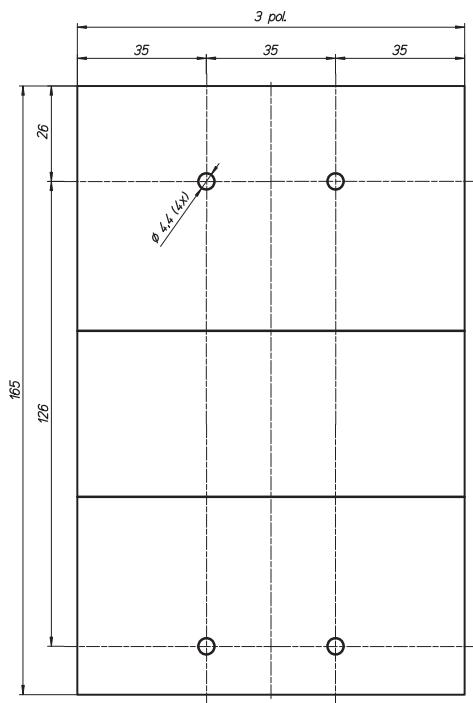


#### Mounting holes BZM1

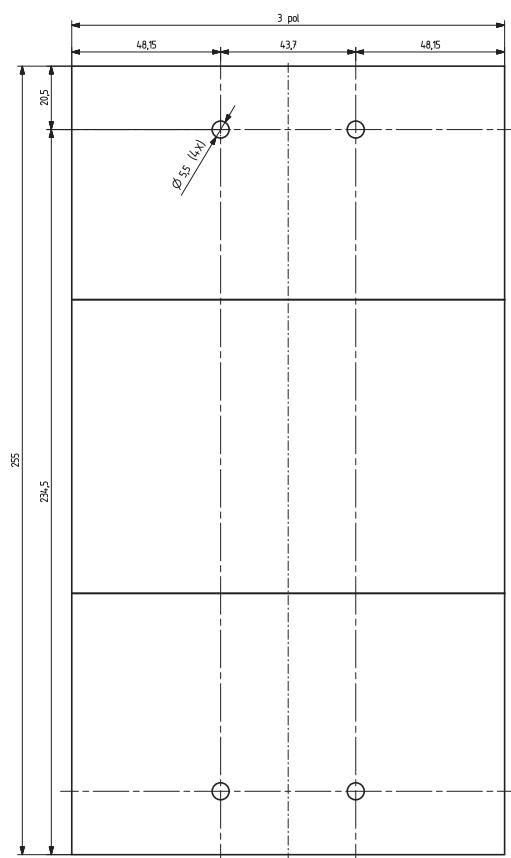


## Mounting holes BZM1, BZM2, BZM3

Mounting holes BZM2



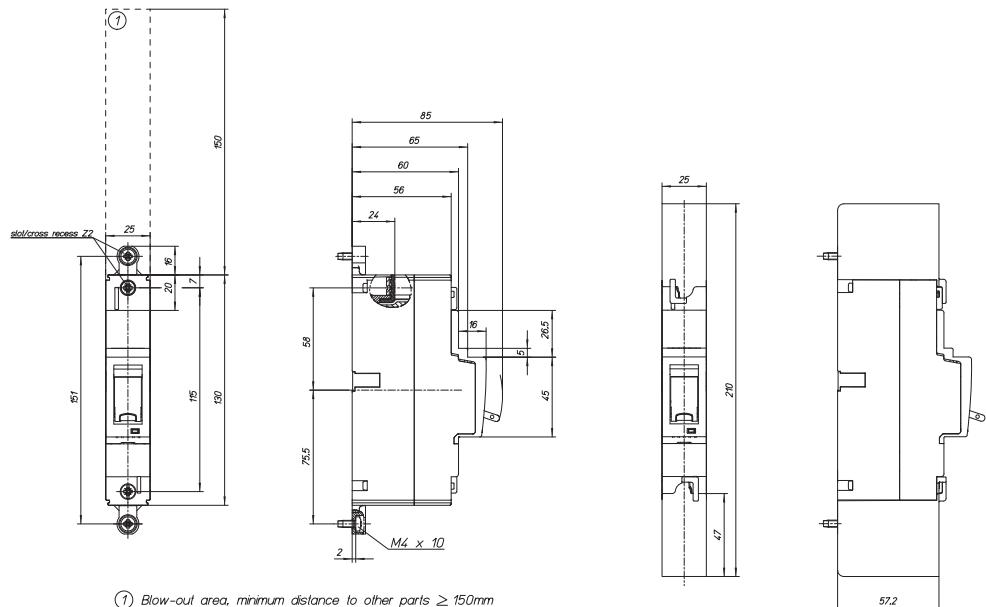
Mounting holes BZM3



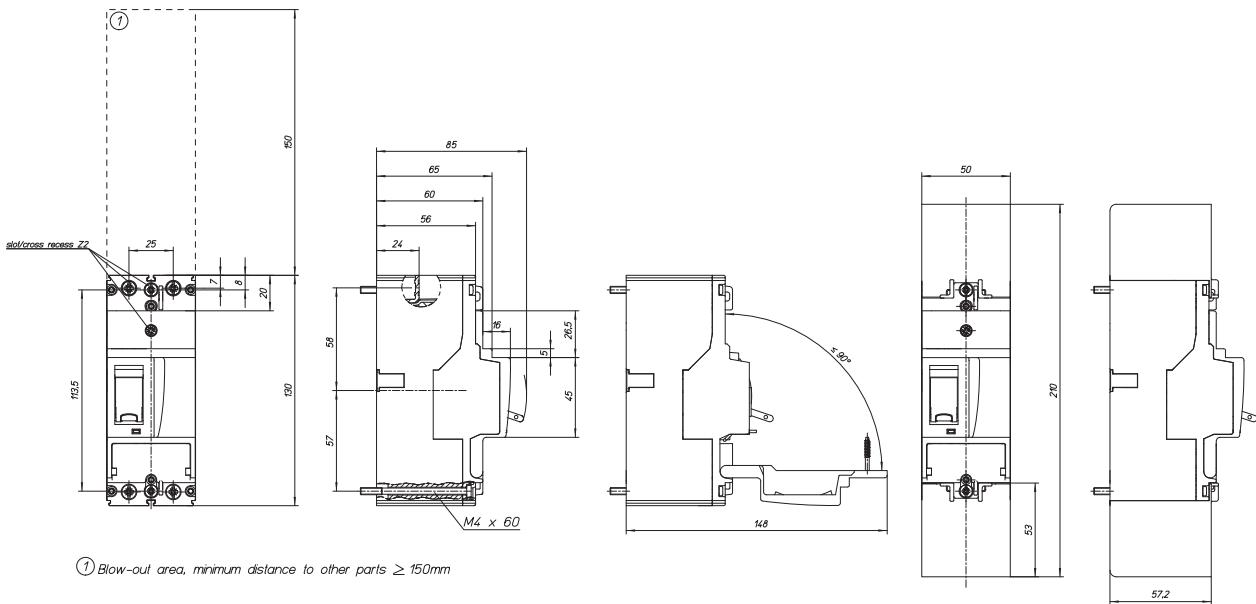
All dimensions in mm

## Dimensions BZM1

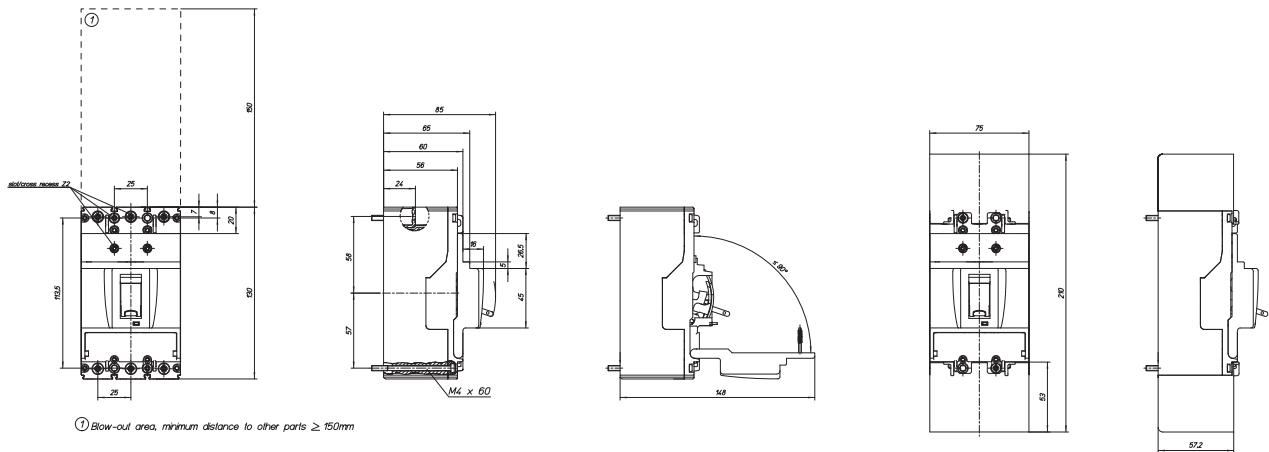
### Circuit breaker BZM1 1-pole



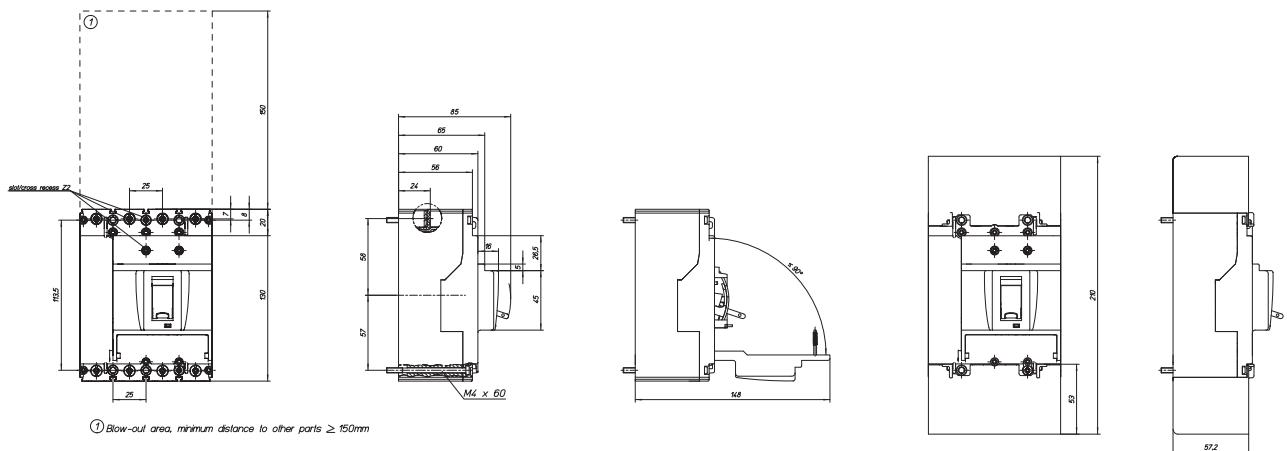
### Circuit breaker BZM1 2-pole



**Circuit breaker BZM1 3-pole**

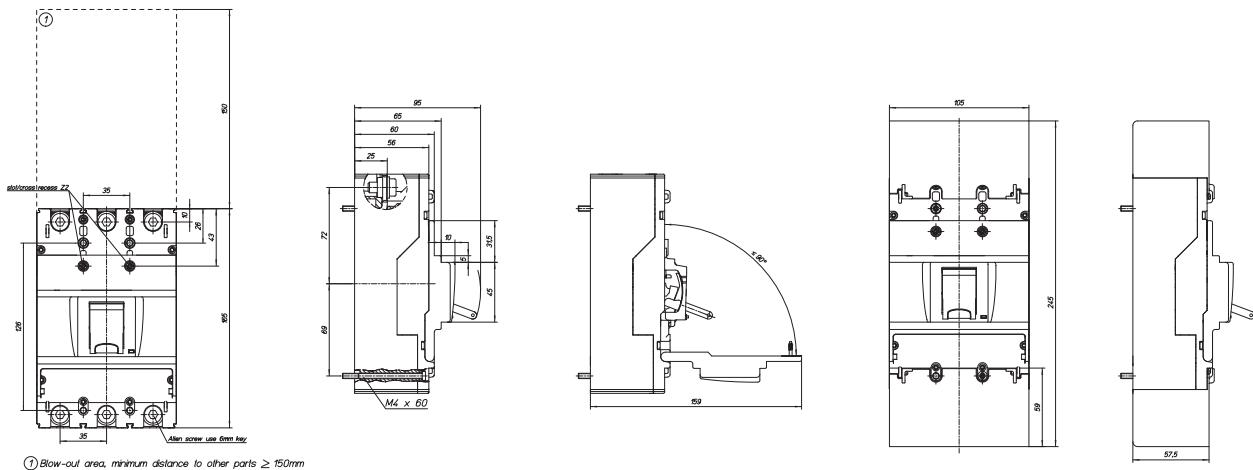


**Circuit breaker BZM1 4-pole**

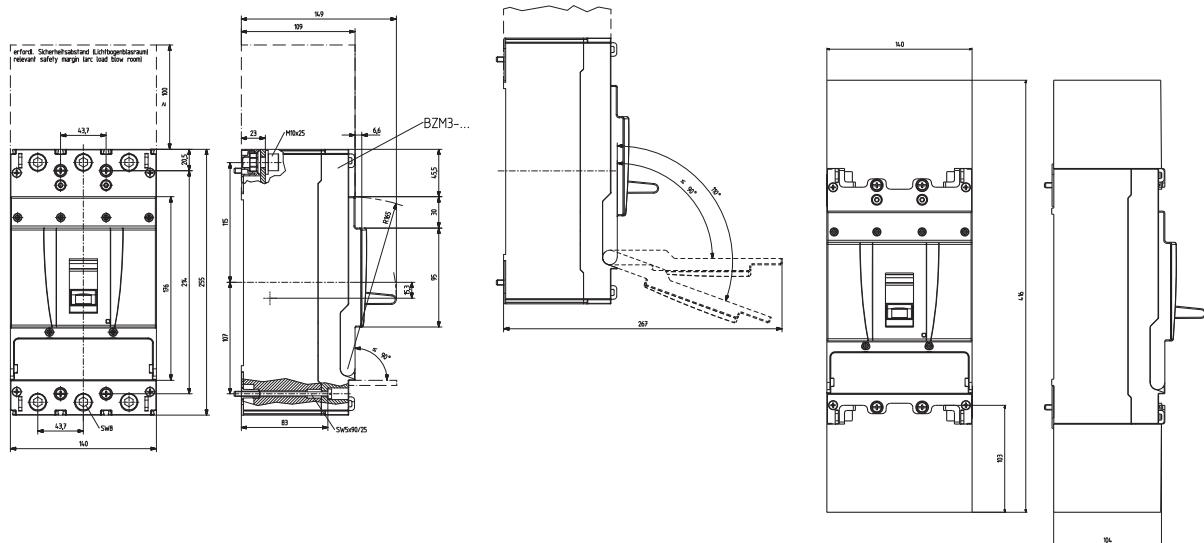


## Dimensions BZM2 and BZM3

### Circuit breaker BZM2 3-pole



### Circuit breaker BZM3 3-pole



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