

Molded Case Circuit Breaker BZMX

BZMX series circuit breaker



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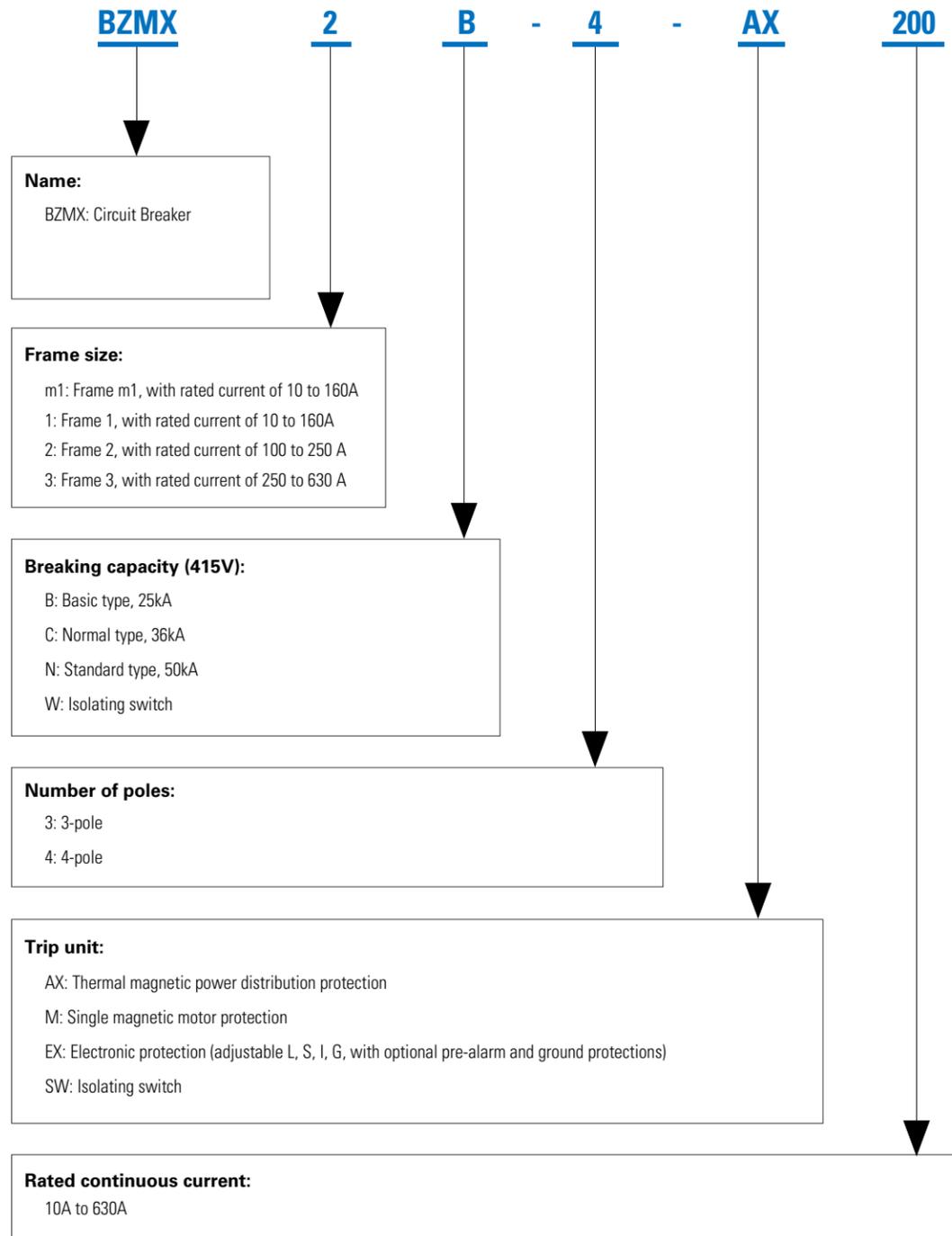
Molded Case Circuit Breaker BZMX

The BZMX series circuit breaker features high performance and multi-functions and is easy to use:

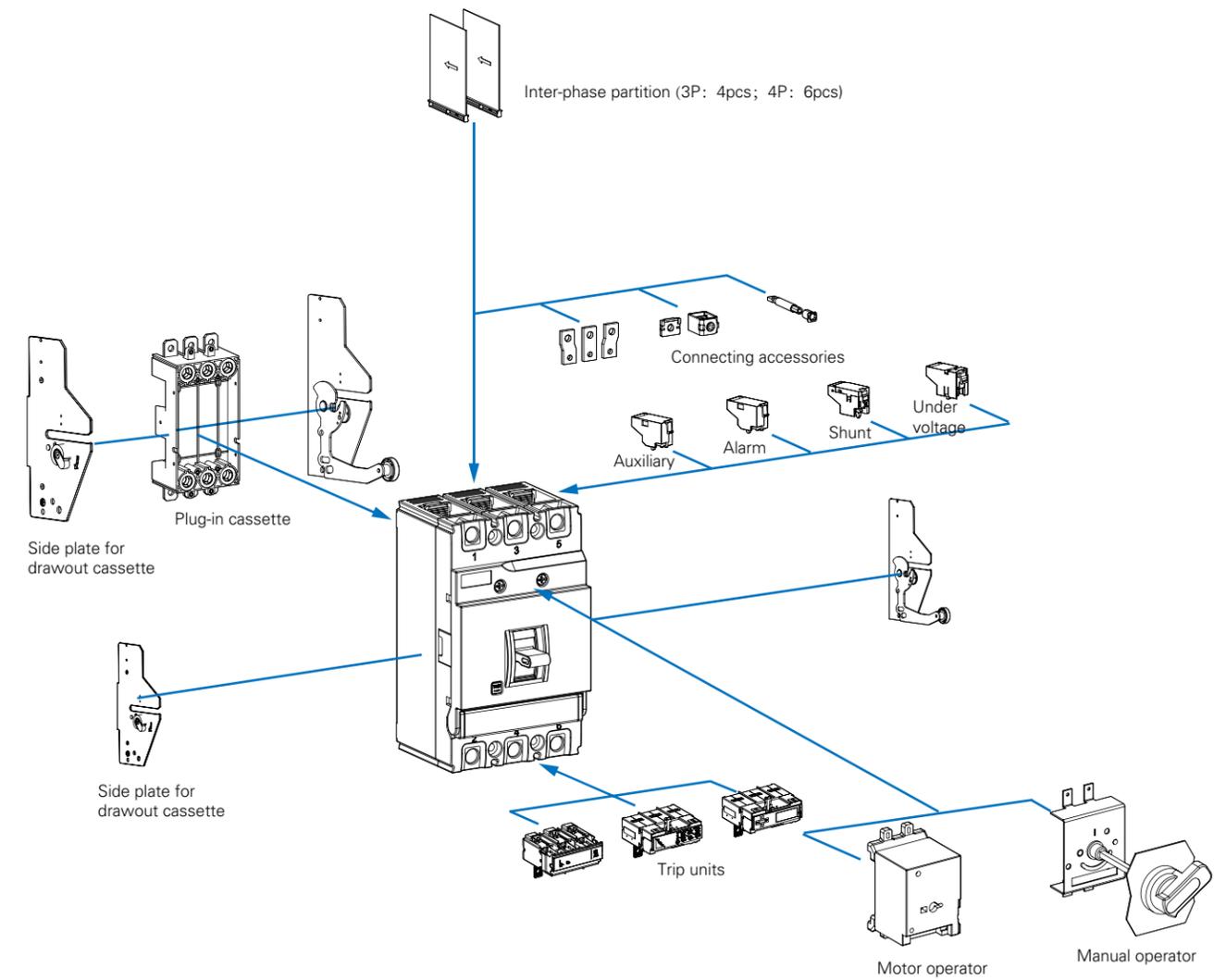
- Multiple protection functions: Power distribution protection and motor protection.

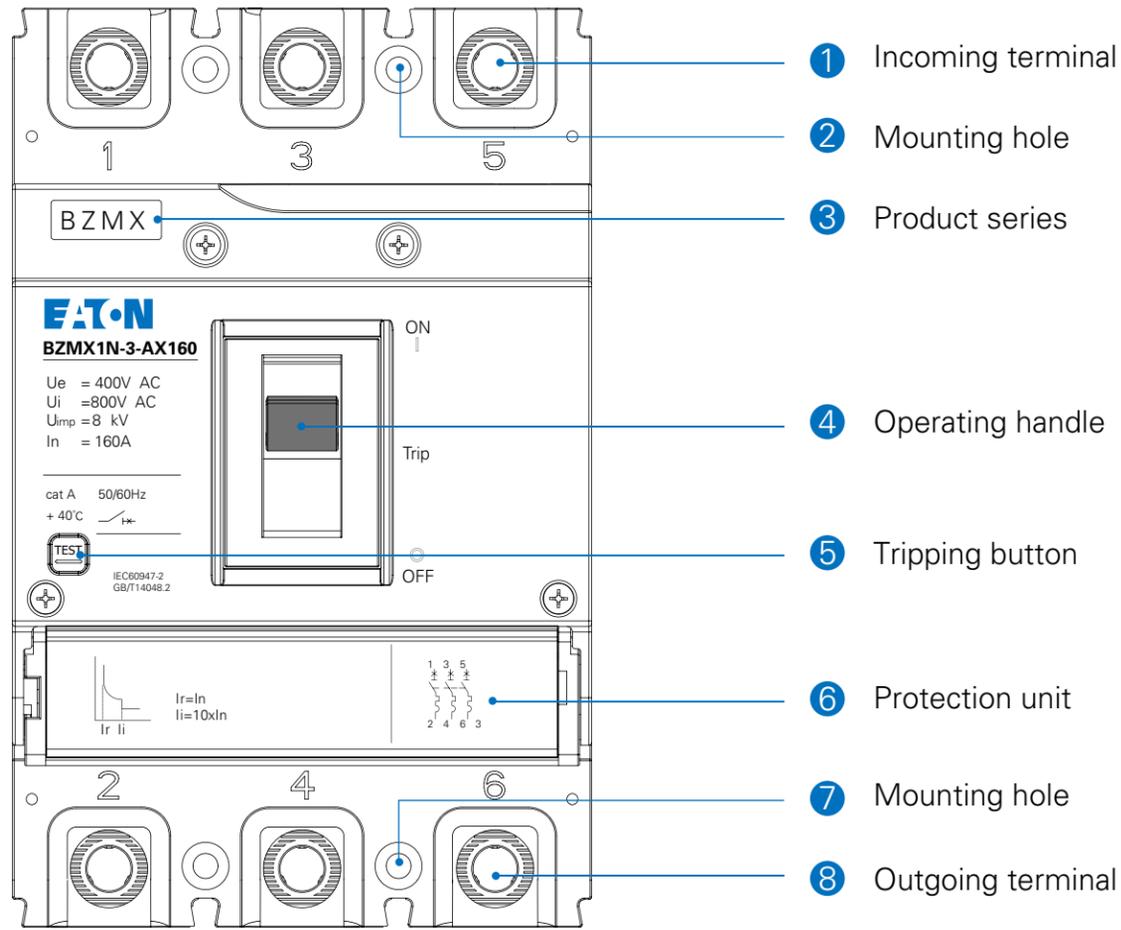
- Breaking capacity from 25kA to 50kA, and rated current range from 10A to 630A, meeting most application requirements
- The trip units offer electronic type with complex functions, and conventional thermal-magnetic type, to meet different needs.

- A variety of accessories are available, to satisfy different application needs by customers.
- Operating short-circuit breaking current I_{cs} = ultimate shortcircuit breaking current I_{cu} .



Notes:
1. Either pre-alarms or ground protection can be selected as required; when without special agreement, pre-alarms is the default function for a 3-pole circuit breaker, with adjustable pre-alarm current I_p ; the ground protection is the default function for a 4-pole circuit breaker, with adjustable grounding protection current I_g and the pre-alarm current I_p equal to $0.9I_r$.
2. The ground protection's action time t_g is not adjustable, with the default setting of 0.1s. If other setting time is required, please specify it upon ordering.



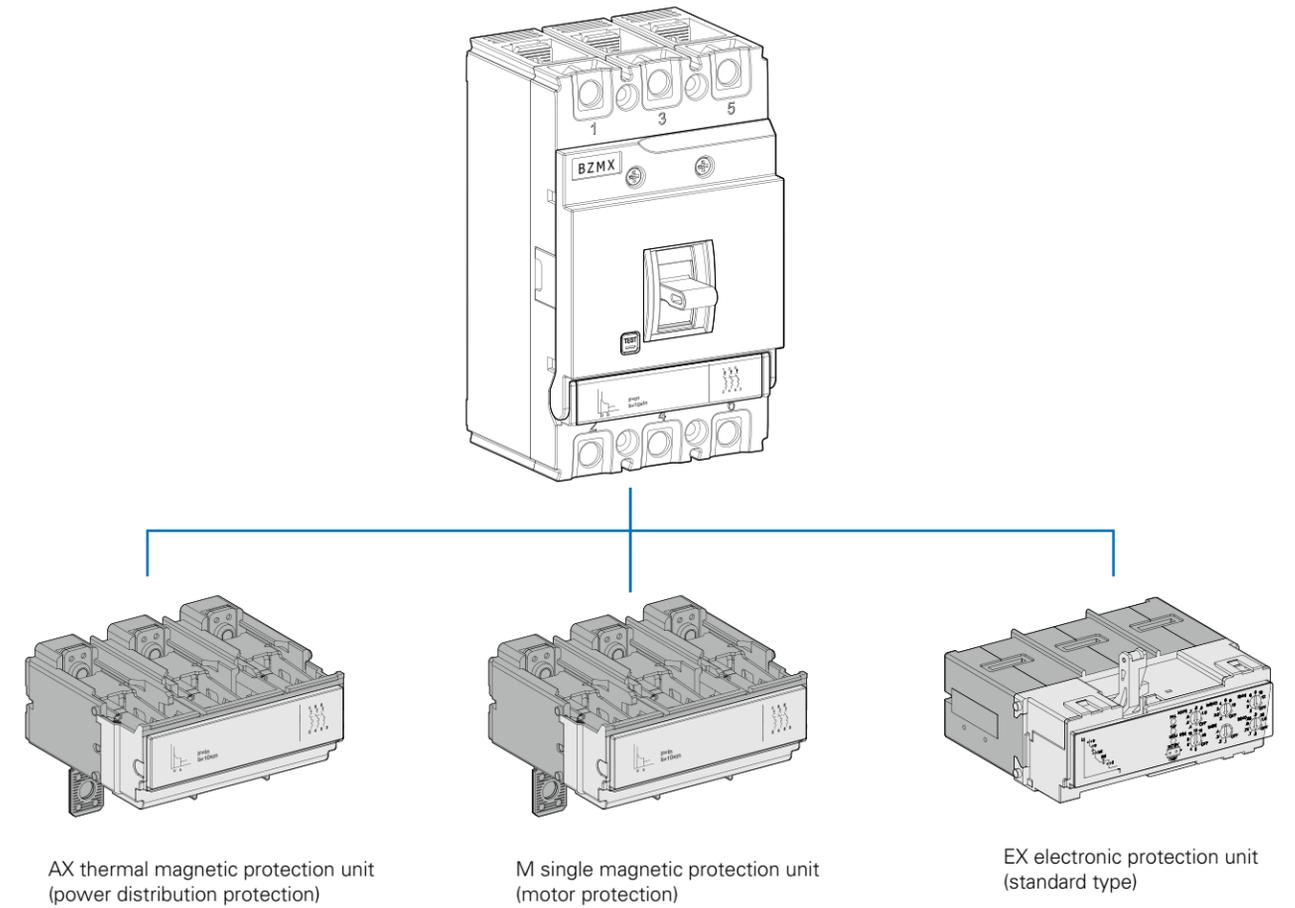


Protection unit overview

From the BZMX1 to BZMX3 circuit breakers, the standardized and modular design ensures maximum common use of accessories for thermal magnetic and electronic protection units.

Different protection units can be selected to different protection types.

- Protect the power distribution cables to the transformer;
- Suitable for overload and short circuit protection of motors;
- Offer lower thresholds, suitable for generator or long cable protection;
- Basic three-stage protection is available, offering measurement, alarm and communication functions.



**BZMX series thermal magnetic molded case circuit breaker
(AX for thermal magnetic, M for single magnetic)**

		BZMXm1		BZMX1			
		3P/4P		3P/4P			
Control	Manual operator	■	■	■	■		
	Motor operator	■	■	■	■		
Connection	Front panel wiring	■	■	■	■		
	Rear panel wiring	■	■	■	■		
	Plug in type	■	■	■	■		
	Drawout type	—	—	—	—		
Electrical performance in line with IEC 60947-2 and GB/T 14048.2							
Rated current of trip unit In (A)		10 16 20 25 32 40 50 63	10 16 20 25 32 40 50 63	10 16 20 25 32 40 50 63	10 16 20 25 32 40 50 63		
Rated insulation voltage (V)	Ui	AC690		AC800			
Rated impulse voltage (kV)	Uimp	8		8			
Rated working voltage (V)	Ue	AC400/AC415		AC400/AC415/AC690			
Circuit breaker type		B		C N			
Rated ultimate short circuit breaking capacity (kA)	Icu AC 50/60 Hz	400 V	25	36	50		
		415 V	25	36	50		
		440 V	25	36	50		
		690 V	—	—	10		
Rated operational short circuit breaking capacity (kA)	Ics AC 50/60 Hz	400 V	25	36	50		
		415 V	25	36	50		
		440 V	25	36	50		
		690 V	—	—	10		
Utilization category		A		A			
Number of operating cycles	Free maintenance	Mechanical	20000		20000		
		Electrical	AC415V	8000		8000	
			AC690V	—		5000	
Protection unit							
Protection unit		Thermal magnetic		Thermal magnetic			
Over load protection	Long delay	I_r ($I_n \times \dots$)	■	■	■		
Short circuit protection	Short delay	I_{sd} ($I_n \times \dots$)	—	—	—		
	Instantaneous	I_i ($I_n \times \dots$)	■	■	■		
Ground protection		I_g ($I_n \times \dots$)	—	—	—		
Indication and control accessories							
Alarm switch			■	■	■		
Auxiliary switch			■	■	■		
Shunt release			■	■	■		
Under-voltage release			■	■	■		
Mounting							
Accessory	Wiring terminal		■	■	■		
	Interphase partition		■	■	■		

- Notes:**
- When selecting the thermal magnetic molded case circuit breaker, with the plug-in wiring method, the plug-in wiring must be derated to 140A for use with the BZMX1 frame with the rated current (In) of 160A. That is, the BZMX2 frame must be selected for the circuit breakers with the rated current (In) from 140A to 250A (250A included);
 - When selecting the thermal magnetic molded case circuit breaker, with the plug-in wiring method, the plug-in wiring must be derated to 570A for use with the BZMX3 frame with the rated current (In) of 630A;
 - When selecting the thermal magnetic molded case circuit breaker, with the drawout wiring method, the drawout wiring must be derated to 570A for use with the BZMX3 frame with the rated current (In) of 630A;

		BZMX2		BZMX3			
		3P/4P		3P/4P			
Control	Manual operator	■	■	■	■		
	Motor operator	■	■	■	■		
Connection	Front panel wiring	■	■	■	■		
	Rear panel wiring	■	■	■	■		
	Plug in type	■	■	■	■		
	Drawout type	—	—	—	—		
Electrical performance in line with IEC 60947-2 and GB/T 14048.2							
Rated current of trip unit In (A)		100 125 140 160	100 125 140 160	250 315 350 400 500 630	250 315 350 400 500 630		
Rated insulation voltage (V)	Ui	AC800		AC800			
Rated impulse voltage (kV)	Uimp	8		8			
Rated working voltage (V)	Ue	AC400/AC415/AC440/AC690		AC400/AC415/AC440/AC690			
Circuit breaker type		B C N		B C N			
Rated ultimate short circuit breaking capacity (kA)	Icu AC 50/60 Hz	25	36	50	25	36	50
		25	36	50	25	36	50
		25	36	50	25	36	50
		—	—	—	—	—	10
Rated operational short circuit breaking capacity (kA)	Ics AC 50/60 Hz	25	36	50	25	36	50
		25	36	50	25	36	50
		25	36	50	25	36	50
		—	—	—	—	—	10
Utilization category		A		A			
Number of operating cycles	Free maintenance	20000		15000			
		10000		8000			
		3000		2000			
Protection unit							
Protection unit		Thermal magnetic		Thermal magnetic			
Over load protection	Long delay	■	■	■	■		
Short circuit protection	Short delay	—	—	—	—		
	Instantaneous	■	■	■	■		
Ground protection		—	—	—	—		
Indication and control accessories							
Alarm switch		■	■	■	■		
Auxiliary switch		■	■	■	■		
Shunt release		■	■	■	■		
Under-voltage release		■	■	■	■		
Mounting							
Accessory	Wiring terminal	■	■	■	■		
	Interphase partition	■	■	■	■		

BZMX series disconnected switches (SW)

BZMX1



BZMX2



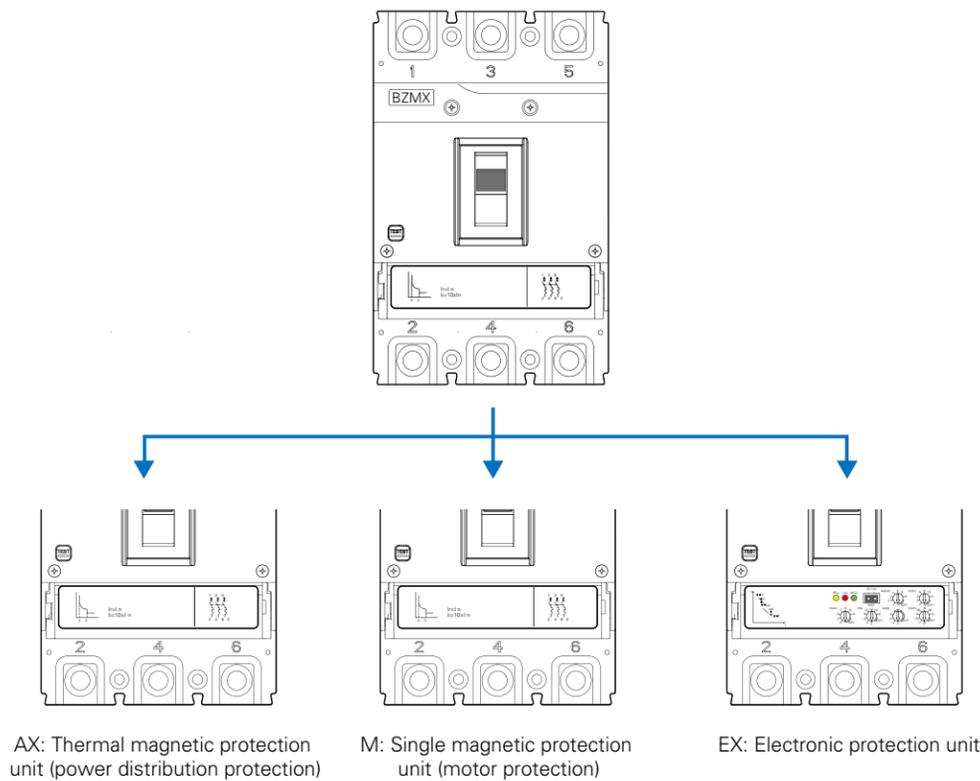
BZMX3



Number of poles		3P, 4P	3P, 4P
Standards		IEC/EN 60947-3 GB14048.1 , GB14048.3	
Electrical specifications			
Rated current (A)	In	Up to 160A	Up to 250A
Rated operating voltage (V)	Ue	AC690	AC690
Rated insulation voltage (V)	Ui	AC690	AC690
Rated impulse withstand voltage (kV)	Uimp	6	8
Icw (kA)	690 V	2	3.5
Icm (kA)	690 V	2.8	5.5
Application category		AC-22/23A	AC-22/23A
Mechanical life		20000	20000
Electrical life	400/415V	8000	10000
	690V	5000	3000
Device dimensions (mm)	Width (3P/4P)	92/122	105/140
	Height	155	165
	Depth	68.5	73
Accessories	Manual operator; auxiliary contacts; alarm; motor operator; shunt release; under-voltage; extension board; rear-panel wiring		
Storage temperature (°C)	-40°C ~ +70°C		
Operating temperature (°C)	-40°C ~ +70°C		
Mounting methods	Fixed type; plug-in type (only for 3P); drawout type (only for Frame 3)		

Notes:
 1. In selecting an AC molded case disconnecting switch, choose plug-in type as the wiring method; choose the BZMX2W frame when 100A ≤ the rated current ≤ 250A.
 2. The circuit breaker can operate at the ambient temperature of -40°C to +70°C, and the 24-hour average temperature does not exceed 35°C.
 When between +40°C ~ +70°C, derating is needed for customer use. For derating coefficients, please refer to the "Temperature Derating Coefficient Table".

Protection unit overview



AX: Thermal magnetic protection unit (power distribution protection)

M: Single magnetic protection unit (motor protection)

EX: Electronic protection unit

AX: Thermal magnetic protection unit (power distribution protection)

Fixed thermal: Rated current from 10A to 630A
Fixed magnetic: Tripping current from 100A to 6300A



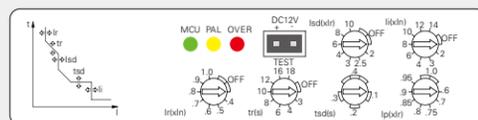
M: Single magnetic protection unit (motor protection)

Fixed magnetic: Tripping current from 120A to 7560A

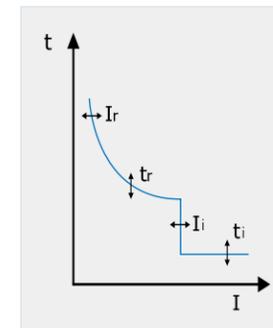


EX: Electronic protection unit (standard type)

Adjustable rated current setting
Adjustable short delay current setting
Adjustable instantaneous current setting
Adjustable pre-alarming setting



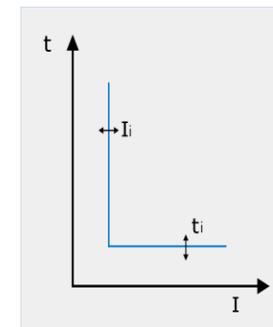
BZMX-AX/M protection unit



AX: Protection characteristic data table

Rated current (A)	Inverse time action characteristics (ambient air temperature +40°C)		
	No action time at 1.05In (cold state)	Action time at 1.3In (hot state)	Instantaneous action current (A)
$I_n \leq 63$	≥ 1 h	< 1 h	$10 I_n \pm 20\%$
$63 < I_n \leq 630$	≥ 2 h	< 2 h	$10 I_n \pm 20\%$

*Note: Instantaneous action current is 500A±20% for 40A and below BZMX1 device.



M: Protection characteristic data table

Rated current (A)	Inverse time action characteristics (ambient air temperature +40°C)	Instantaneous action current (A)
$I_n \leq 630$	—	$12 I_n \pm 20\%$

*Note: Instantaneous action current is 500A±20% for 40A and below BZMX1 device.

Power loss

Catalog No. of circuit breaker	Rated current (A)	Three-phase total power loss (W)	
		Front panel and rear panel wiring	Plug-in and rear panel wiring
BZMX1	160	20	24
BZMX2	250	35	40
BZMX3	630	43	51

Temperature derating factors

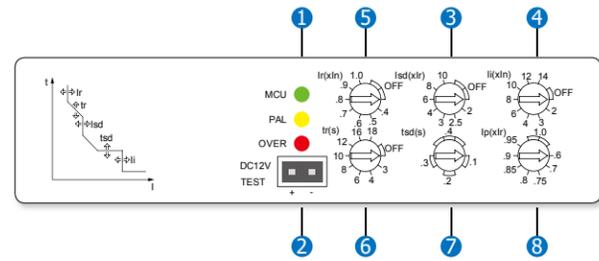
Catalog No. of circuit breaker	+40°C	+45°C	+50°C	+55°C	+60°C	+65°C	+70°C
BZMX1	1.0 In	1.0 In	1.0 In	1.0 In	0.98 In	0.95 In	0.92 In
BZMX2	1.0 In	1.0 In	1.0 In	1.0 In	0.98 In	0.95 In	0.92 In
BZMX3	1.0 In	1.0 In	1.0 In	1.0 In	0.97 In	0.94 In	0.91 In

High altitude derating factors

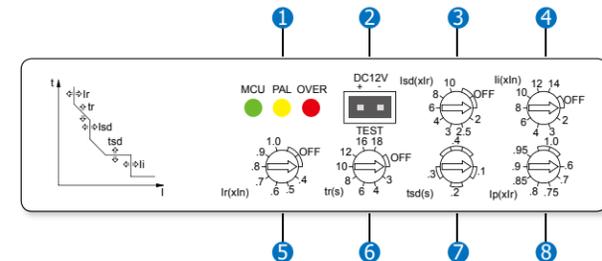
Description	Data						
Altitude (m)	2000	2500	3000	3500	4000	4500	5000
Power frequency withstand voltage (V)	3000	3000	2500	2400	2200	2100	2000
Insulation voltage (V)	1000	1000	900	850	800	720	700
Maximum working voltage (V)	690	690	620	580	540	500	460
Breaking capacity correction factor	1	1	0.9	0.82	0.78	0.75	0.7
Working current correction factor	1	1	0.98	0.97	0.96	0.95	0.94

BZMX-EX protection unit

BZMX1-EX

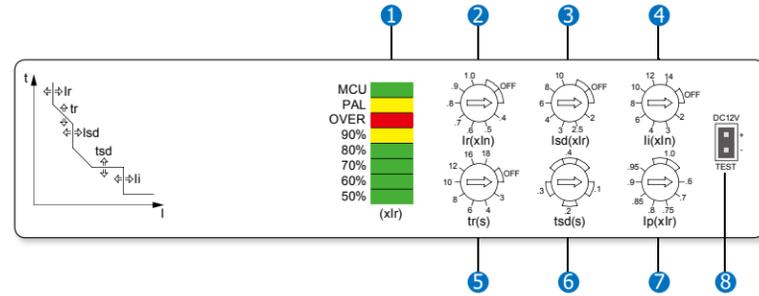


BZMX2-EX



- 1 ● MCU: Operating indicator
- 2 ● PAL: Pre-alarm/fault indicator
- 3 ● OVER: Overload indicator
- 4 ● TSET port: Verify the reliability of the controller actions
- 5 ● Short-circuit (short delay) current setting I_{sd}
- 6 ● Short-circuit (short delay) time setting t_{sd}
- 7 ● Short-circuit (instantaneous) current setting I_i
- 8 ● *Pre-alarm current setting I_p /ground protection I_g
- 9 ● Over load (long delay) current setting I_r
- 10 ● Over load (long delay) time setting t_r

BZMX3-EX



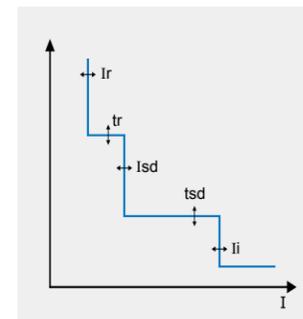
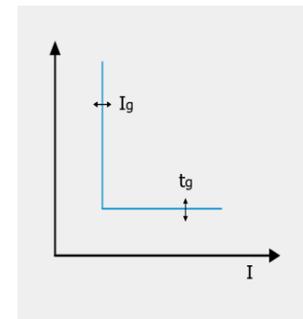
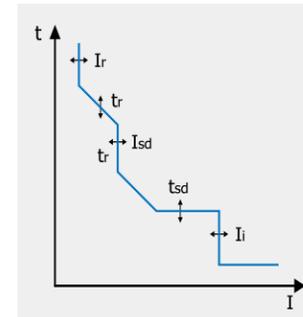
- 1 ■ OVER 90% ■ 80% ■ 70% ■ 60% ■ 50% ■ PAL ■ MCU
- 2 Over load (long delay) current setting I_r
- 3 Short-circuit (short delay) current setting I_{sd}
- 4 Short-circuit (instantaneous) current setting I_i
- 5 Over load (long delay) time setting t_r
- 6 Short-circuit (short delay) time setting t_{sd}
- 7 *Pre-alarm current setting I_p /ground protection I_g
- 8 TSET port: Verify the reliability of the controller actions

Notes:
MCU indicator
 Green MCU operating indicator (always lit on when the current of the main circuit reaches the value for the controller to operate normally)

Pre-alarm/fault indicator
 Yellow pre-alarming/fault indicator (flashes when the actual current of the main circuit I is equal to or greater than I_p , and always lit on when I is equal to or greater than I_r)

Overload indicator
 Over (red, always lit on when $I \geq I_r * 115\%$)
 90% (yellow, always lit on when $I \geq I_r * 105\%$)
 80% (green, always lit on when $I \geq I_r * 80\%$)
 70% (green, always lit on when $I \geq I_r * 70\%$)
 60% (green, always lit on when $I \geq I_r * 60\%$)
 50% (green, always lit on when $I \geq I_r * 50\%$)

BZMX-EX protection unit



EX (standard type) protection characteristics

Overload long delay		Action current set value I_r Current tolerance $\pm 10\%$ $(0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0) \times I_n + \text{OFF}$									
Action time T_r	Current	Action time									
	Tolerance $\pm 10\%$	$\leq 1.05I_r$	No action within 2 hours								
	$> 1.3I_r$	Action within 1 hour									
Dial set value	Set time t_r (s)	3	4	6	8	10	12	16	18	OFF	
1.5 I_r	Action time T_r (s)	48	64	96	128	160	192	256	288		
2.0 I_r	Action time T_r (s)	27	36	54	72	90	108	144	162		
6.0 I_r	Action time T_{rr} (s)	3	4	6	8	10	12	16	18		
7.2 I_r	Action time T_r (s)	2.08	2.77	4.17	5.55	6.94	8.33	11.1	12.5		

Short circuit short delay		Action current set value I_{sd} Current tolerance $\pm 10\%$ $(2, 2.5, 3, 4, 6, 8, 10) \times I_n + \text{OFF}$				
Action time T_{sd}	$I_{sd} \leq 1.5I_{sd}$	Inverse time		$I^2 T_{sd} = (1.5I_{sd})^2 t_{sd}$		
	$1.5I_{sd} \leq I < I_i$	Fixed time				
		Set time t_{sd} (s)	0.1	0.2	0.3	0.4
		Tolerance (s)	± 0.03	± 0.04	± 0.06	± 0.08
		Return time (s)	—	0.14	0.21	0.28

Short circuit instantaneous		Action current set value I_i Current tolerance $\pm 15\%$ $(2, 3, 4, 6, 8, 10, 12, 14) \times I_n + \text{OFF}$			
Action characteristics		$< 0.2s$			

Ground protection		Action current set value I_r Current tolerance $\pm 10\%$ $(0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1) \times I_n + \text{OFF}$			
Action characteristics		No action when $I \leq 0.9I_g$, and action when $I \geq 1.1I_g$			
Action time t_g	Set time (s)	0.1	0.2	0.3	0.4
	Tolerance (s)	± 0.03	± 0.04	± 0.06	± 0.08
	Return time (s)	—	0.14	0.21	0.28

Overload pre-alarming		Setting current I_p $(0.6, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1.0) \times I_r$			
Action characteristics		Alarm when between $0.9I_p$ and $1.1I_p$			

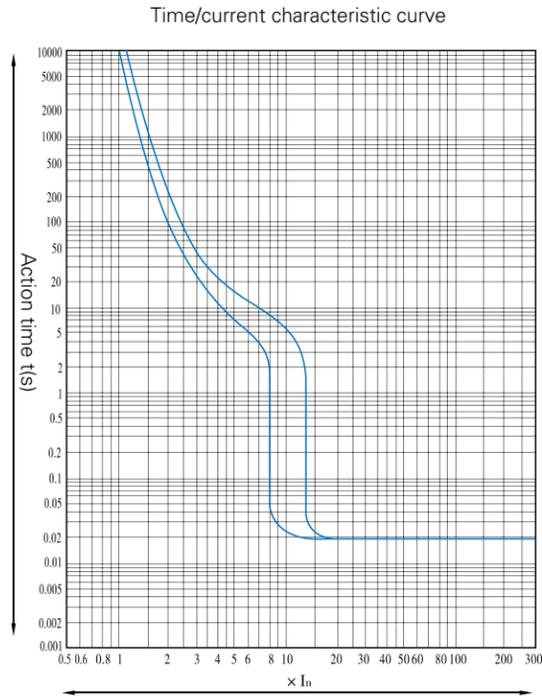
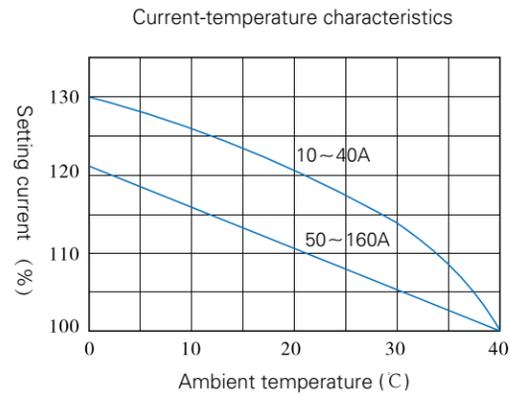
EX protection characteristics factory routine setting table

Protection characteristics		Note
Overload long delay	I_r	$1.0 \times I_n$
	t_r	18s When $I = 6I_r$
Short circuit short delay	I_{sd}	$6 \times I_r$
	t_{sd}	0.1s When $1.5I_{sd} \leq I < I_i$
Short circuit instantaneous	I_i	$10 \times I_n$
Ground protection	I_g	$0.6 \times I_n$
	t_g	0.1s
Pre-alarming	I_p	$0.9 \times I_r$

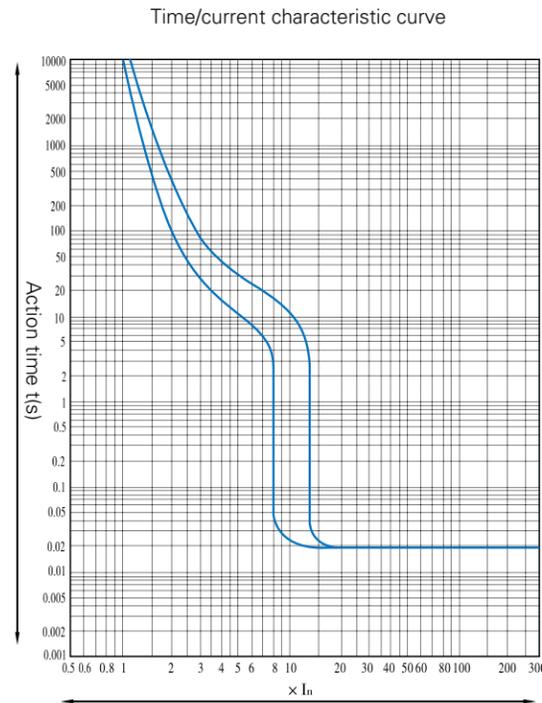
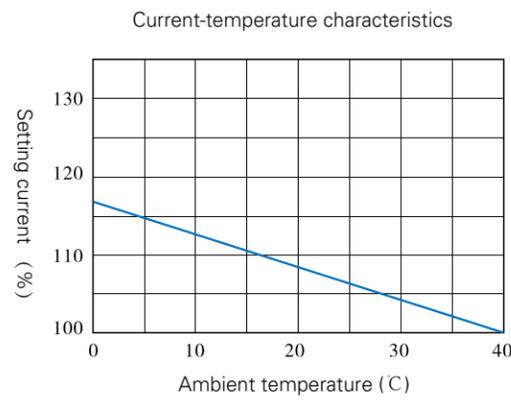
Notes:
 1. Either pre-alarming or ground protection can be selected as required; when without special agreement, pre-alarming is the default function for a 3-pole circuit breaker, with adjustable pre-alarm current I_p ; the ground protection is the default function for a 4-pole circuit breaker, with adjustable grounding protection current I_g and the pre-alarm current I_p equal to $0.9I_r$.
 2. The ground protection's action time t_g is not adjustable, with the default setting of 0.1s. If other setting time is required, please specify it upon ordering.

BZMX protective action characteristic curve

BZMX1-AX (thermal magnetic)

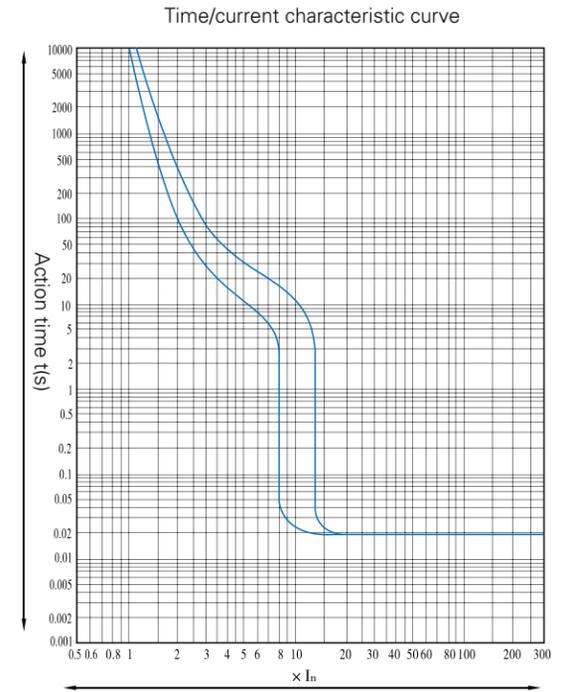
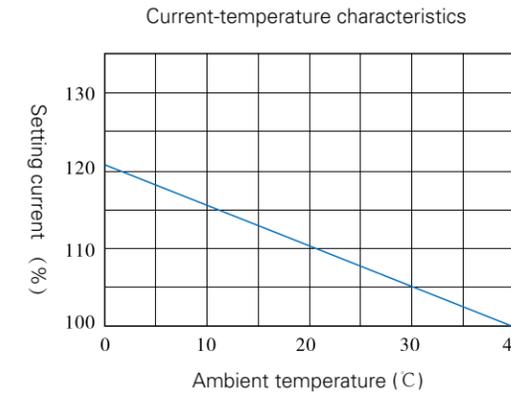


BZMX2-AX (thermal magnetic)

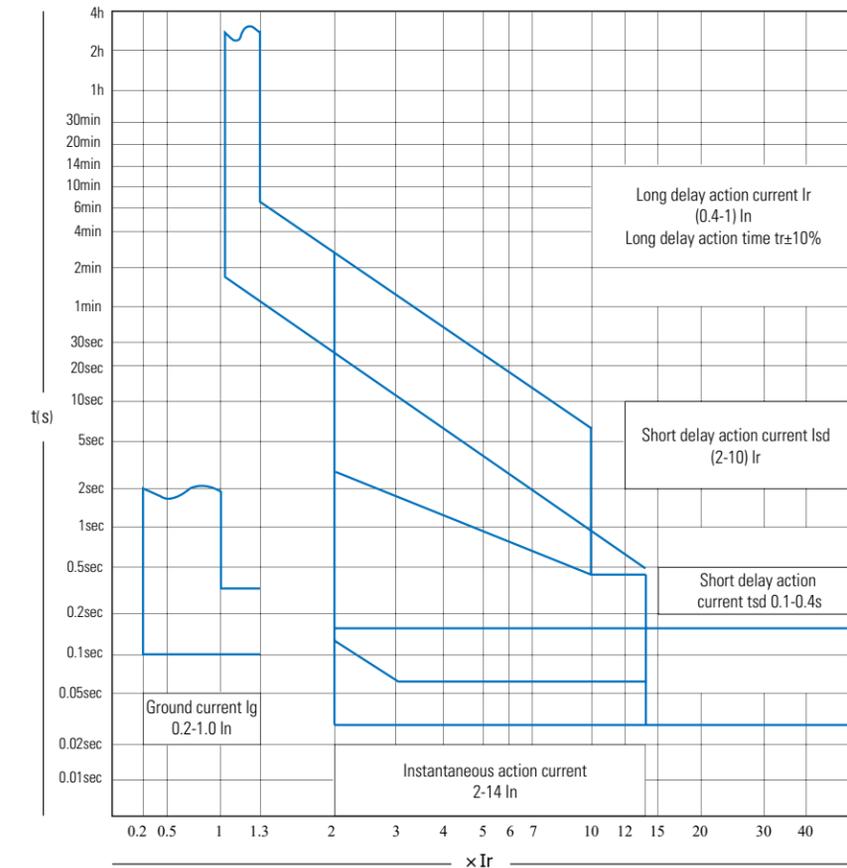


BZMX protective action characteristic curve

BZMX3-AX (thermal magnetic)



BZMX-EX (electronic type)



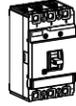
BZMX thermal magnetic power distribution protection

Rated current = Rated continuous current In=Iu A	Basic breaking capacity 3P 25 kA 415 V 50/60 Hz Catalog No. Part No.	Basic breaking capacity 4P 25 kA 415 V 50/60 Hz Catalog No. Part No.	Normal breaking capacity 3P 36 kA 415 V 50/60 Hz Catalog No. Part No.
10	BZMXm1B-3-AX10 CCX00180	BZMXm1B-4-AX10 CCX00193	BZMX1C-3-AX10 CCX00292
16	BZMXm1B-3-AX16 CCX00181	BZMXm1B-4-AX16 CCX00194	BZMX1C-3-AX16 CCX00293
20	BZMXm1B-3-AX20 CCX00182	BZMXm1B-4-AX20 CCX00195	BZMX1C-3-AX20 CCX00294
25	BZMXm1B-3-AX25 CCX00183	BZMXm1B-4-AX25 CCX00196	BZMX1C-3-AX25 CCX00295
32	BZMXm1B-3-AX32 CCX00184	BZMXm1B-4-AX32 CCX00197	BZMX1C-3-AX32 CCX00296
40	BZMXm1B-3-AX40 CCX00185	BZMXm1B-4-AX40 CCX00198	BZMX1C-3-AX40 CCX00297
50	BZMXm1B-3-AX50 CCX00186	BZMXm1B-4-AX50 CCX00199	BZMX1C-3-AX50 CCX00298
63	BZMXm1B-3-AX63 CCX00187	BZMXm1B-4-AX63 CCX00200	BZMX1C-3-AX63 CCX00299
80	BZMXm1B-3-AX80 CCX00188	BZMXm1B-4-AX80 CCX00201	BZMX1C-3-AX80 CCX00300
100	BZMXm1B-3-AX100 CCX00189	BZMXm1B-4-AX100 CCX00202	BZMX1C-3-AX100 CCX00301
125	BZMXm1B-3-AX125 CCX00190	BZMXm1B-4-AX125 CCX00203	BZMX1C-3-AX125 CCX00302
140	BZMXm1B-3-AX140 CCX00191	BZMXm1B-4-AX140 CCX00204	BZMX1C-3-AX140 CCX00303
160	BZMXm1B-3-AX160 CCX00192	BZMXm1B-4-AX160 CCX00205	BZMX1C-3-AX160 CCX00304
100	BZMX2B-3-AX100 CCX00080	BZMX2B-4-AX100 CCX00088	BZMX2C-3-AX100 CCX00112
125	BZMX2B-3-AX125 CCX00081	BZMX2B-4-AX125 CCX00089	BZMX2C-3-AX125 CCX00113
140	BZMX2B-3-AX140 CCX00082	BZMX2B-4-AX140 CCX00090	BZMX2C-3-AX140 CCX00114
160	BZMX2B-3-AX160 CCX00083	BZMX2B-4-AX160 CCX00091	BZMX2C-3-AX160 CCX00115
180	BZMX2B-3-AX180 CCX00084	BZMX2B-4-AX180 CCX00092	BZMX2C-3-AX180 CCX00116
200	BZMX2B-3-AX200 CCX00085	BZMX2B-4-AX200 CCX00093	BZMX2C-3-AX200 CCX00117
225	BZMX2B-3-AX225 CCX00086	BZMX2B-4-AX225 CCX00094	BZMX2C-3-AX225 CCX00118
250	BZMX2B-3-AX250 CCX00087	BZMX2B-4-AX250 CCX00095	BZMX2C-3-AX250 CCX00119
250	BZMX3B-3-AX250 CCX00001	BZMX3B-4-AX250 CCX00007	BZMX3C-3-AX250 CCX00025
315	BZMX3B-3-AX315 CCX00002	BZMX3B-4-AX315 CCX00008	BZMX3C-3-AX315 CCX00026
350	BZMX3B-3-AX350 CCX00003	BZMX3B-4-AX350 CCX00009	BZMX3C-3-AX350 CCX00027
400	BZMX3B-3-AX400 CCX00004	BZMX3B-4-AX400 CCX00010	BZMX3C-3-AX400 CCX00028
500	BZMX3B-3-AX500 CCX00005	BZMX3B-4-AX500 CCX00011	BZMX3C-3-AX500 CCX00029
630	BZMX3B-3-AX630 CCX00006	BZMX3B-4-AX630 CCX00012	BZMX3C-3-AX630 CCX00030

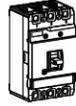
BZMX1



BZMX2



BZMX3



Normal breaking capacity 4P 36 kA 415 V 50/60 Hz Catalog No. Part No.	Standard breaking capacity 3P 50 kA 415 V 50/60 Hz Catalog No. Part No.	Standard breaking capacity 4P 50 kA 415 V 50/60 Hz Catalog No. Part No.	Standard package
BZMX1C-4-AX10 CCX00318	BZMX1N-3-AX10 CCX00240	BZMX1N-4-AX10 CCX00266	1 unit
BZMX1C-4-AX16 CCX00319	BZMX1N-3-AX16 CCX00241	BZMX1N-4-AX16 CCX00267	1 unit
BZMX1C-4-AX20 CCX00320	BZMX1N-3-AX20 CCX00242	BZMX1N-4-AX20 CCX00268	1 unit
BZMX1C-4-AX25 CCX00321	BZMX1N-3-AX25 CCX00243	BZMX1N-4-AX25 CCX00269	1 unit
BZMX1C-4-AX32 CCX00322	BZMX1N-3-AX32 CCX00244	BZMX1N-4-AX32 CCX00270	1 unit
BZMX1C-4-AX40 CCX00323	BZMX1N-3-AX40 CCX00245	BZMX1N-4-AX40 CCX00271	1 unit
BZMX1C-4-AX50 CCX00324	BZMX1N-3-AX50 CCX00246	BZMX1N-4-AX50 CCX00272	1 unit
BZMX1C-4-AX63 CCX00325	BZMX1N-3-AX63 CCX00247	BZMX1N-4-AX63 CCX00273	1 unit
BZMX1C-4-AX80 CCX00326	BZMX1N-3-AX80 CCX00248	BZMX1N-4-AX80 CCX00274	1 unit
BZMX1C-4-AX100 CCX00327	BZMX1N-3-AX100 CCX00249	BZMX1N-4-AX100 CCX00275	1 unit
BZMX1C-4-AX125 CCX00328	BZMX1N-3-AX125 CCX00250	BZMX1N-4-AX125 CCX00276	1 unit
BZMX1C-4-AX140 CCX00329	BZMX1N-3-AX140 CCX00251	BZMX1N-4-AX140 CCX00277	1 unit
BZMX1C-4-AX160 CCX00330	BZMX1N-3-AX160 CCX00252	BZMX1N-4-AX160 CCX00278	1 unit
BZMX2C-4-AX100 CCX00120	BZMX2N-3-AX100 CCX00144	BZMX2N-4-AX100 CCX00152	1 unit
BZMX2C-4-AX125 CCX00121	BZMX2N-3-AX125 CCX00145	BZMX2N-4-AX125 CCX00153	1 unit
BZMX2C-4-AX140 CCX00122	BZMX2N-3-AX140 CCX00146	BZMX2N-4-AX140 CCX00154	1 unit
BZMX2C-4-AX160 CCX00123	BZMX2N-3-AX160 CCX00147	BZMX2N-4-AX160 CCX00155	1 unit
BZMX2C-4-AX180 CCX00124	BZMX2N-3-AX180 CCX00148	BZMX2N-4-AX180 CCX00156	1 unit
BZMX2C-4-AX200 CCX00125	BZMX2N-3-AX200 CCX00149	BZMX2N-4-AX200 CCX00157	1 unit
BZMX2C-4-AX225 CCX00126	BZMX2N-3-AX225 CCX00150	BZMX2N-4-AX225 CCX00158	1 unit
BZMX2C-4-AX250 CCX00127	BZMX2N-3-AX250 CCX00151	BZMX2N-4-AX250 CCX00159	1 unit
BZMX3C-4-AX250 CCX00031	BZMX3N-3-AX250 CCX00049	BZMX3N-4-AX250 CCX00055	1 unit
BZMX3C-4-AX315 CCX00032	BZMX3N-3-AX315 CCX00050	BZMX3N-4-AX315 CCX00056	1 unit
BZMX3C-4-AX350 CCX00033	BZMX3N-3-AX350 CCX00051	BZMX3N-4-AX350 CCX00057	1 unit
BZMX3C-4-AX400 CCX00034	BZMX3N-3-AX400 CCX00052	BZMX3N-4-AX400 CCX00058	1 unit
BZMX3C-4-AX500 CCX00035	BZMX3N-3-AX500 CCX00053	BZMX3N-4-AX500 CCX00059	1 unit
BZMX3C-4-AX630 CCX00036	BZMX3N-3-AX630 CCX00054	BZMX3N-4-AX630 CCX00060	1 unit

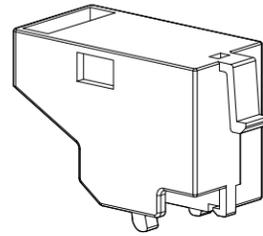
BZMX single-magnetic motor protection

Rated current = Rated continuous current In=Iu A	Basic breaking capacity 3P 25 kA	Normal breaking capacity 3P 36 kA	Standard breaking capacity 3P 50 kA	Standard package	
	415 V 50/60 Hz Catalog No. Part No.	415 V 50/60 Hz Catalog No. Part No.	415 V 50/60 Hz Catalog No. Part No.		
	10	BZMXm1B-3-M10 CCX00206	BZMX1C-3-M10 CCX00305	BZMX1N-3-M10 CCX00253	1 unit
	16	BZMXm1B-3-M16 CCX00207	BZMX1C-3-M16 CCX00306	BZMX1N-3-M16 CCX00254	1 unit
	20	BZMXm1B-3-M20 CCX00208	BZMX1C-3-M20 CCX00307	BZMX1N-3-M20 CCX00255	1 unit
	25	BZMXm1B-3-M25 CCX00209	BZMX1C-3-M25 CCX00308	BZMX1N-3-M25 CCX00256	1 unit
	32	BZMXm1B-3-M32 CCX00210	BZMX1C-3-M32 CCX00309	BZMX1N-3-M32 CCX00257	1 unit
	40	BZMXm1B-3-M40 CCX00211	BZMX1C-3-M40 CCX00310	BZMX1N-3-M40 CCX00258	1 unit
	50	BZMXm1B-3-M50 CCX00212	BZMX1C-3-M50 CCX00311	BZMX1N-3-M50 CCX00259	1 unit
	63	BZMXm1B-3-M63 CCX00213	BZMX1C-3-M63 CCX00312	BZMX1N-3-M63 CCX00260	1 unit
	80	BZMXm1B-3-M80 CCX00214	BZMX1C-3-M80 CCX00313	BZMX1N-3-M80 CCX00261	1 unit
	100	BZMXm1B-3-M100 CCX00215	BZMX1C-3-M100 CCX00314	BZMX1N-3-M100 CCX00262	1 unit
	125	BZMXm1B-3-M125 CCX00216	BZMX1C-3-M125 CCX00315	BZMX1N-3-M125 CCX00263	1 unit
	140	BZMXm1B-3-M140 CCX00217	BZMX1C-3-M140 CCX00316	BZMX1N-3-M140 CCX00264	1 unit
	160	BZMXm1B-3-M160 CCX00218	BZMX1C-3-M160 CCX00317	BZMX1N-3-M160 CCX00265	1 unit
	100	BZMX2B-3-M100 CCX00096	BZMX2C-3-M100 CCX00128	BZMX2N-3-M100 CCX00160	1 unit
	125	BZMX2B-3-M125 CCX00097	BZMX2C-3-M125 CCX00129	BZMX2N-3-M125 CCX00161	1 unit
	140	BZMX2B-3-M140 CCX00098	BZMX2C-3-M140 CCX00130	BZMX2N-3-M140 CCX00162	1 unit
	160	BZMX2B-3-M160 CCX00099	BZMX2C-3-M160 CCX00131	BZMX2N-3-M160 CCX00163	1 unit
	180	BZMX2B-3-M180 CCX00100	BZMX2C-3-M180 CCX00132	BZMX2N-3-M180 CCX00164	1 unit
	200	BZMX2B-3-M200 CCX00101	BZMX2C-3-M200 CCX00133	BZMX2N-3-M200 CCX00165	1 unit
	225	BZMX2B-3-M225 CCX00102	BZMX2C-3-M225 CCX00134	BZMX2N-3-M225 CCX00166	1 unit
	250	BZMX2B-3-M250 CCX00103	BZMX2C-3-M250 CCX00135	BZMX2N-3-M250 CCX00167	1 unit
	250	BZMX3B-3-M250 CCX00013	BZMX3C-3-M250 CCX00037	BZMX3N-3-M250 CCX00061	1 unit
	315	BZMX3B-3-M315 CCX00014	BZMX3C-3-M315 CCX00038	BZMX3N-3-M315 CCX00062	1 unit
	350	BZMX3B-3-M350 CCX00015	BZMX3C-3-M350 CCX00039	BZMX3N-3-M350 CCX00063	1 unit
	400	BZMX3B-3-M400 CCX00016	BZMX3C-3-M400 CCX00040	BZMX3N-3-M400 CCX00064	1 unit
	500	BZMX3B-3-M500 CCX00017	BZMX3C-3-M500 CCX00041	BZMX3N-3-M500 CCX00065	1 unit
	630	BZMX3B-3-M630 CCX00018	BZMX3C-3-M630 CCX00042	BZMX3N-3-M630 CCX00066	1 unit

BZMX Isolating switch

BZMX electronic protection

3P Catalog No. Part No.	4P Catalog No. Part No.	Normal breaking capacity 3P 36 kA	Normal breaking capacity 4P 36 kA	Standard breaking capacity 3P 50 kA	Standard breaking capacity 4P 50 kA	Standard package
		415 V 50/60 Hz Catalog No. Part No.				
		BZMX1C-3-EX32 CCX00350	BZMX1C-4-EX32 CCX00354	BZMX1N-3-EX32 CCX00364	BZMX1N-4-EX32 CCX00368	1 unit
BZMX1W-3-SW63 CCX00390	BZMX1W-4-SW63 CCX00391	BZMX1C-3-EX63 CCX00351	BZMX1C-4-EX63 CCX00355	BZMX1N-3-EX63 CCX00365	BZMX1N-4-EX63 CCX00369	1 unit
BZMX1W-3-SW100 CCX00392	BZMX1W-4-SW100 CCX00393	BZMX1C-3-EX100 CCX00352	BZMX1C-4-EX100 CCX00356	BZMX1N-3-EX100 CCX00366	BZMX1N-4-EX100 CCX00370	1 unit
BZMX1W-3-SW125 CCX00394	BZMX1W-4-SW125 CCX00395					1 unit
BZMX1W-3-SW160 CCX00396	BZMX1W-4-SW160 CCX00397	BZMX1C-3-EX160 CCX00353	BZMX1C-4-EX160 CCX00357	BZMX1N-3-EX160 CCX00367	BZMX1N-4-EX160 CCX00371	1 unit
BZMX2W-3-SW160 CCX00383	BZMX2W-4-SW160 CCX00386	BZMX2C-3-EX160 CCX00378	BZMX2C-4-EX160 CCX00379	BZMX2N-3-EX160 CCX00380	BZMX2N-4-EX160 CCX00381	1 unit
BZMX2W-3-SW200 CCX00388	BZMX2W-4-SW200 CCX00389					1 unit
BZMX2W-3-SW250 CCX00384	BZMX2W-4-SW250 CCX00387	BZMX2C-3-EX250 CCX00358	BZMX2C-4-EX250 CCX00359	BZMX2N-3-EX250 CCX00372	BZMX2N-4-EX250 CCX00373	1 unit
		BZMX3C-3-EX400 CCX00360	BZMX3C-4-EX400 CCX00362	BZMX3N-3-EX400 CCX00374	BZMX3N-4-EX400 CCX00376	1 unit
		BZMX3C-3-EX630 CCX00361	BZMX3C-4-EX630 CCX00363	BZMX3N-3-EX630 CCX00375	BZMX3N-4-EX630 CCX00377	1 unit



BZMX auxiliary contact

Auxiliary contact (BZMX/Z)

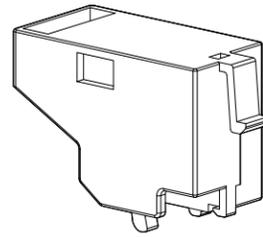
Circuit breaker status

The position when the circuit breaker is in "Open" status

Auxiliary switch status



Position when the circuit breaker is in "Closed" status



BZMX alarm contact

Alarm contact (BZMX/ZA)

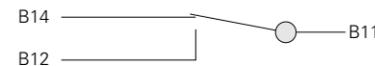
Circuit breaker status

The position when the circuit breaker is in "Open" / "Closed" status

Alarm switch status



The position when the circuit breaker is in "Tripped" status



Rated working current of alarm contact and auxiliary contact

Category	Rated current I _{nm}	Conventional thermal current I _{th} (A)	Rated working current I _e (A)	
			AC400V	DC220V
Auxiliary contact	≤250	3	0.3	0.15
	400 ≤ I _{nm} ≤ 1000	3	0.4	0.2
Alarm contact	10 ≤ I _{nm} ≤ 1000	-	AC220V/1.0A	0.15

Making and breaking capacity of alarm contact and auxiliary contact under normal conditions

Utilization category	Making (ON)				Breaking (OFF)				Number of cycles	Number of cycles per minute	Energized time
	I/I _e	U/U _e	cos φ	T _{0.95}	I/I _e	U/U _e	cos φ	T _{0.95}			
AC-14	10	1	0.7	-	1	1	0.7	-	6050	6	≥ 0.05s
DC-13	1	1	-	6 × P _e	1	1	-	6 × P _e			≥ 0.05s

Making and breaking capacity of alarm contact and auxiliary contact under abnormal conditions

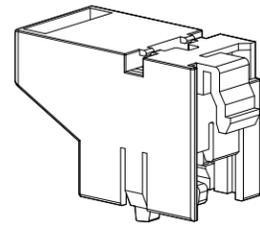
Utilization category	Making (ON)				Breaking (OFF)				Number of cycles	Number of cycles per minute	Energized time
	I/I _e	U/U _e	cos φ	T _{0.95}	I/I _e	U/U _e	cos φ	T _{0.95}			
AC-14	6	1	0.7	-	1	1	0.7	-			≥ 0.05s
DC-13	1.1	1.1	-	6 × P _e	1.1	1.1	-	6 × P _e	10	6	≥ 0.05s

Notes:

- ① T_{0.95}=6P_e is an empirical formula, where P_e is in "watts" and T_{0.95} is in milliseconds;
- ② When the total number of operating performance of the circuit breaker is less than 6050, the number of energized operating performance of the auxiliary contact can be the same as the total number of operating performance of the circuit breaker;
- ③ The operating frequency and energized time are allowed to be consistent with the main circuit of the circuit breaker;
- ④ If T_{0.95} is greater than 0.05s, the energized time is at least T_{0.95}.

Auxiliary contact/alarm contact

Accessory name	Frame	Catalogue No.	Ordering No.	Note		
Auxiliary contact/ alarm contact	BZMXm1	BZMXm1/Z L	CCX09001	L: Left mounting R: Right mounting Blank: Both left and right mounting are fine		
		BZMXm1/Z R	CCX09002			
		BZMXm1/ZZ L	CCX09003			
		BZMXm1/ZZ R	CCX09004			
		BZMXm1/ZA L	CCX09005			
		BZMXm1/ZA R	CCX09006			
		BZMXm1/Z+ZA L	CCX09007			
		BZMXm1/Z+ZA R	CCX09008			
BZMX1		BZMX1/Z	CCX09009			
		BZMX1/ZZ	CCX09010			
		BZMX1/ZA	CCX09011			
		BZMX1/Z+ZA	CCX09012			
		BZMX2		BZMX2/Z L	CCX09013	
				BZMX2/Z R	CCX09014	
BZMX2		BZMX2/ZZ L	CCX09015			
		BZMX2/ZZ R	CCX09016			
		BZMX2/ZA L	CCX09017			
		BZMX2/ZA R	CCX09018			
		BZMX2/Z+ZA L	CCX09019			
		BZMX2/Z+ZA R	CCX09020			
		BZMX3		BZMX3/Z	CCX09021	
				BZMX3/ZA	CCX09022	
				BZMX3/Z+ZA	CCX09023	

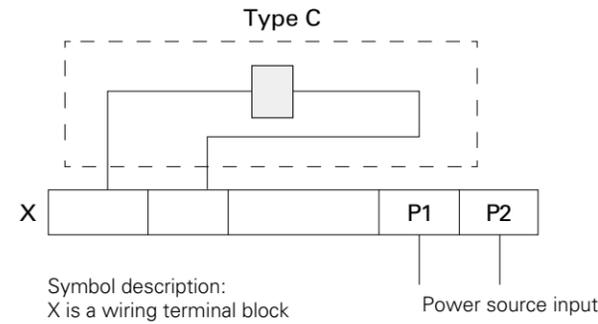


BZMX/UVT under-voltage release

Under-voltage release (BZMX/UVT)

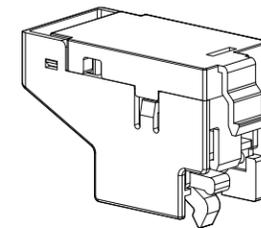
Rated operating voltage	AC400V AC230V
Action characteristics	The under-voltage release shall reliably trip the circuit breaker when between 35% and 70% of the rated operating voltage; The under-voltage release shall enable the circuit breaker to close when between 85% and 110% of the rated operating voltage; The under-voltage release shall prevent the circuit breaker from being closed when below 35% of the rated operating voltage.

External module wiring diagram of the under-voltage release (the circuit breaker's internal accessories are within the dotted rectangle)



Under-voltage release

Accessory name	Frame	Catalogue No.	Ordering No.	Note
Under-voltage release	BZMXm1	BZMXm1/UVT 400V	CCX09024	Right mounting
		BZMXm1/UVT 230V	CCX09025	
	BZMX1	BZMX1/UVT 400V	CCX09026	
		BZMX1/UVT 230V	CCX09027	
	BZMX2	BZMX2/UVT 400V	CCX09028	
		BZMX2/UVT 230V	CCX09029	
BZMX3	BZMX3/UVT 400V	CCX09030		
	BZMX3/UVT 230V	CCX09031		

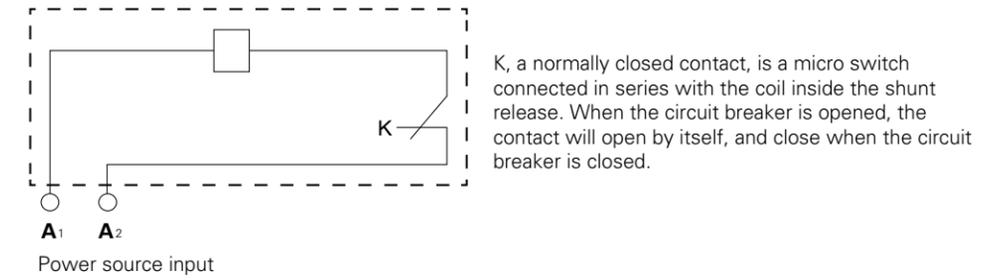


BZMX/SHT shunt release

Shunt release (BZMX/SHT)

Voltage specification	AC50Hz: 230V 400V DC: 24V 220V
Action characteristics	The shunt release enables the circuit breaker to trip when between 70% and 110% of the rated control voltage

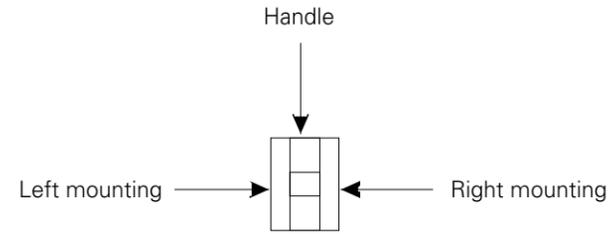
Wiring diagram (The circuit breaker's internal accessories are within the dotted rectangle)



Shunt release

Accessory name	Frame	Catalogue No.	Ordering No.	Describe	Note
Shunt release	BZMXm1	BZMXm1/SHT 400V	CCX09032	Line length 80cm	Left mounting
		BZMXm1/SHT 230V	CCX09033		
		BZMXm1/SHT DC24V	CCX09034		
	BZMX1	BZMX1/SHT 400V	CCX09035		
		BZMX1/SHT 230V	CCX09036		
		BZMX1/SHT DC110V	CCX09037		
	BZMX2	BZMX2/SHT DC24V	CCX09038		
		BZMX2/SHT 400V	CCX09039		
		BZMX2/SHT 230V	CCX09040		
	BZMX2	BZMX2/SHT DC110V	CCX09041		
		BZMX2/SHT DC24V	CCX09042		
		BZMX2/SHT 400V	CCX09043		
BZMX3	BZMX3/SHT 230V	CCX09044			
	BZMX3/SHT DC220V	CCX09045			
	BZMX3/SHT DC24V	CCX09046			

Electrical accessory combination modes



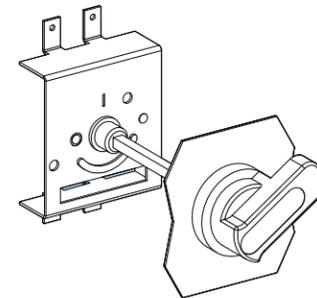
Legend

- ◇ Single-auxiliary contact
- ◆ Double-auxiliary contact
- Alarm contact
- Shunt release
- ▲ Under-voltage release
- ★ Single auxiliary alarm contact

Tripping mode accessory code comparison table

Accessory code	Accessory name	BZMXm1		BZMX1		BZMX2		BZMX3	
		3P	4P	3P	4P	3P	4P	3P	4P
00	N/A	/	/	/	/	/	/	/	/
10	Shunt release	■	■	■	■	■	■	■	■
20	Single-auxiliary contact	◇	◇	◇	◇	◇	◇	◇	◇
30	Double-auxiliary contact	◆	◆	◆	◆	◆	◆	◆	◆
40	Under-voltage release	▲	▲	▲	▲	▲	▲	▲	▲
50	Alarm contact	●	●	●	●	●	●	●	●
60	Single-auxiliary alarm contact	★	★	★	★	★	★	★	★
12	Shunt release + single-auxiliary contact	■◇	■◇	■◇	■◇	■◇	■◇	■◇	■◇
13	Shunt release + double-auxiliary contacts	■◆	■◆	■◆	■◆	■◆	■◆	■◆	■◆
14	Shunt release + under-voltage release	■▲	■▲	■▲	■▲	■▲	■▲	■▲	■▲
15	Shunt release + alarm contact	■●	■●	■●	■●	■●	■●	■●	■●
16	Shunt release + single-auxiliary alarm contact	■★	■★	■★	■★	■★	■★	■★	■★
17	Shunt release + single-auxiliary contact + under-voltage release	/	/	/	/	/	/	■◇▲	■◇▲
18	Shunt release + single-auxiliary alarm contact + single-auxiliary contact	/	/	/	/	/	/	■★◇	■★◇
19	Shunt release + alarm contact + under-voltage release	/	/	/	/	/	/	■●▲	■●▲
21	Shunt release + single-auxiliary alarm contact + under-voltage release	/	/	/	/	/	/	■★▲	■★▲
22	Two groups of single-auxiliary contacts	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇
32	Double-auxiliary contact + single-auxiliary contact	◆◇	◆◇	◆◇	◆◇	◆◇	◆◇	◆◇	◆◇
33	Two groups of double-auxiliary contacts	◆◆	◆◆	◆◆	◆◆	◆◆	◆◆	◆◆	◆◆
35	Double-auxiliary contact + alarm contact	◆●	◆●	◆●	◆●	◆●	◆●	◆●	◆●
36	Double-auxiliary contact + single-auxiliary alarm contact	◆★	◆★	◆★	◆★	◆★	◆★	◆★	◆★
42	Under-voltage release + single-auxiliary contact	◇▲	◇▲	◇▲	◇▲	◇▲	◇▲	◇▲	◇▲
43	Under-voltage release + double-auxiliary contact	◆▲	◆▲	◆▲	◆▲	◆▲	◆▲	◆▲	◆▲
23	Under-voltage release + three groups of auxiliary contacts	/	/	/	/	/	/	◇◆▲	◇◆▲
24	Under-voltage release + single-auxiliary contact+ single-auxiliary alarm contact	/	/	/	/	/	/	◇★▲	◇★▲
45	Under-voltage release + alarm contact	●▲	●▲	●▲	●▲	●▲	●▲	●▲	●▲
46	Under-voltage release+ single-auxiliary alarm contact	★▲	★▲	★▲	★▲	★▲	★▲	★▲	★▲

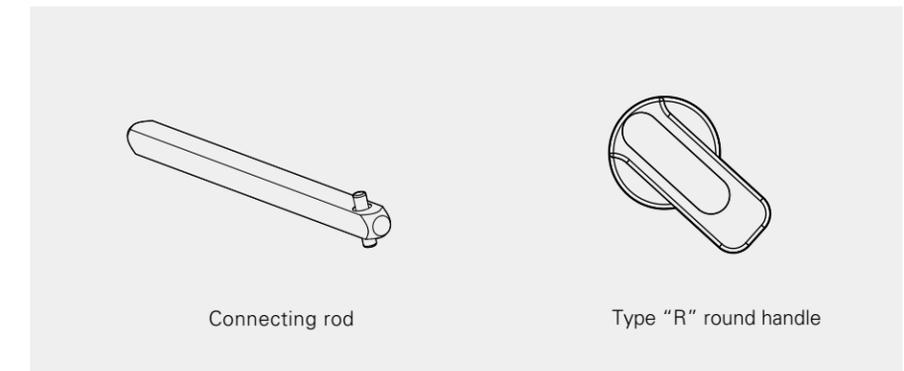
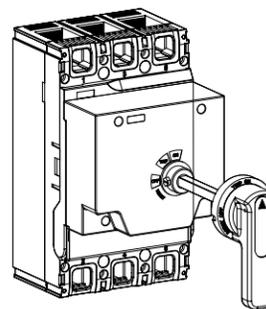
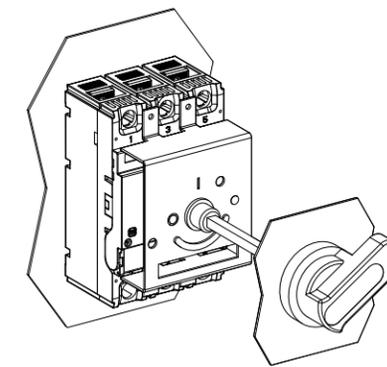
Manual operator (BZMX/CS)



Thanks for its unique design and transmission mechanism, the rotary handle operating mechanism enables the molded case circuit breaker to close, open and re-trip through the rotary handle;

The BZMX/CS series rotary manual operating mechanism has:

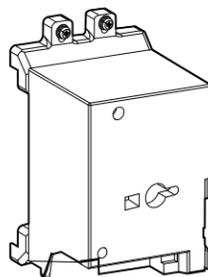
- A round rotary operating handle equipped
- The cabinet door cannot be opened when the circuit breaker is in the closed state, that is, the door is interlocked
- The handle can be used with relevant drawout cabinet and features interlocking function with the drawout cabinet
- If the rotary handle operating mechanism is faulty in the closed state, the cabinet door can be opened through the emergency unlocking device on the operating handle
- The extension rotary handle can be used, with its shaft length subject to the distance between the rotating outlet of the rotary handle operating mechanism and the door:
- 150 for the shortest distance and 500 for the longest
- CS1 is a centric type
- C2S is an eccentric type



Manual operator

Accessory name	Frame	Catalogue No.	Ordering No.	Note
Standard manual operating toolkit	BZMXm1	BZMXm1/CS1	CCX09070	A 200mm long connecting rod is equipped as standard
		BZMXm1/CS2	CCX09071	
	BZMX1	BZMX1/CS1	CCX09072	
		BZMX1/CS2	CCX09073	
	BZMX2	BZMX2/CS1	CCX09074	
		BZMX2/CS2	CCX09075	
500mm long connecting rod	BZMXm1/BZMX1/BZMX2	BZMXm1/X1/X2-500	CCX09101	For the 500mm long connecting rod, please order additionally a standard manual operating toolkit for use with
		BZMX3	CCX09102	
	BZMX3	BZMX3-500	CCX09102	

Motor operator (BZMX/CD)

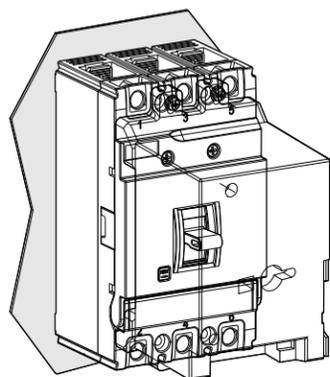
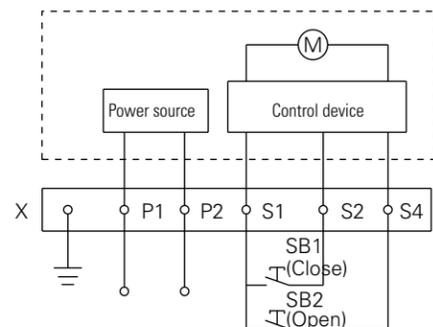


The motor operator is used to remotely control the closing and opening of the circuit breaker, composed of a charging spring equipped with an opening coil and a closing coil.

The motor operator features:

- Manual or automatic operating modes can be selected
- The manual drive handle is located at the front of the cover

The wiring diagram of the BZMX/CD motor operator is shown below (the circuit breaker's internal accessories are within the dotted rectangle)



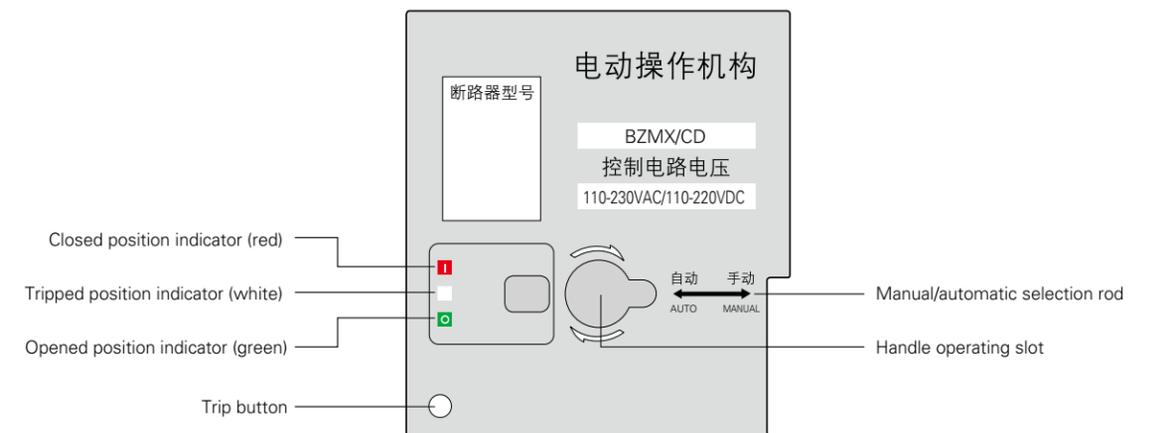
Manual operation

- Turn the toggle switch to the "manual" position, and the internal power supply will be automatically turned off
- Insert the manual drive handle into the handle operating slot on the front of the motor operator and turn it clockwise
- It is forbidden to turn counterclockwise

Motor operation

- Turn on automatically
- The operating frequency should not exceed 3 times per minute
- Use the ON/OFF switch within the frequency range
- ON/OFF signals shall not be input simultaneously during automatic operation
- If the circuit breaker is equipped with an undervoltage release (UVT), the rated voltage shall be applied to the UVT before performing motor operations

Motor operator's outlook



Starting current, power and life table of BZMX/CD motor operator

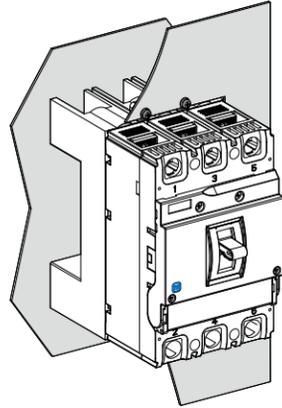
Catalog No. of equipped circuit breaker	Catalog No. of motor operator	Starting current (A)	Response time (ms)		Power loss (w)	Life (operation)
			Closed	Open		
BZMXm1	CD2	≤ 0.5	310	200	14	14000
BZMX1	CD2	≤ 0.5	310	200	14	14000
BZMX2		≤ 0.5	310	200	14	10000
BZMX3	CD2	≤ 0.5	500	350	14	10000

Note: After the circuit breaker trips, the motor operator must trip the circuit breaker again before it can be closed.

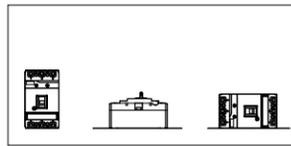
Motor operator

Accessory name	Frame	Catalogue No.	Ordering No.	Note	
Motor operator	BZMXm1	BZMXm1/CD2 AC230V/DC220V	CCX09047		
		BZMXm1/CD2 AC/DC110V	CCX09048		
		BZMXm1/CD2 DC24V	CCX09049		
	BZMX1	BZMX1/CD2 400V	CCX09050		
		BZMX1/CD2 AC230V/DC220V	CCX09051		
		BZMX1/CD2 AC/DC110V	CCX09052		
		BZMX1/CD2 DC24V	CCX09053		
	BZMX2	BZMX2/CD2 400V	CCX09054		
		BZMX2/CD2 AC230V/DC220V	CCX09055		
		BZMX2/CD2 AC/DC110V	CCX09056		
	BZMX3	BZMX2/CD2 DC24V	CCX09057		
		BZMX3/CD2 400V	CCX09058		
BZMX3/CD2 AC230V/DC220V		CCX09059			
		BZMX3/CD2 AC/DC110V	CCX09060		
		BZMX3/CD2 DC24V	CCX09061		

Plug-in cassette (BZMX/P)

**Advantages of plug-in circuit breakers**

- The circuit breaker can be withdrawn or replaced quickly with no need to access the incoming and outgoing lines and mounting cassette;
- The plug-in cassette can be pre-mounted, convenient for users to add circuit breakers in the future;
- When with bottom panel mounting or through panel mounting for the circuit breaker, the power circuit can be isolated. Complete insulation can be achieved through the short terminal sheath (must be equipped) on the device. The protection levels are as follows:
 - IP4 when the circuit breaker is pulled in;
 - IP2 when the circuit breaker is withdrawn;
 - IP4 when the circuit breaker is withdrawn and equipped with a shutter on the bottom panel



Mounting method

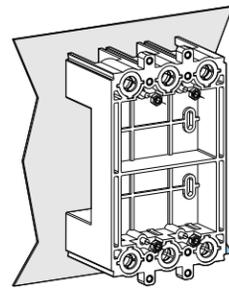
Plug-in circuit breaker's configuration

- The pluggable device is the securing section of the plug-in circuit breaker;
- It can be directly mounted on the rear panel of the switchboard;
- The circuit breaker is mounted on the pluggable device with fixing screws.

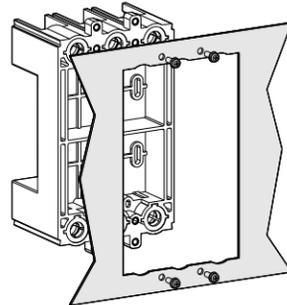
Accessories

Optional insulation accessories are available:

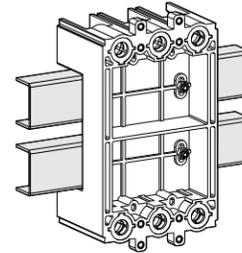
- Terminal sheath, to prevent direct contact with the wiring terminal;
- Inter-phase partition, to enhance inter-phase insulation.

Mounting

Bottom panel mounting

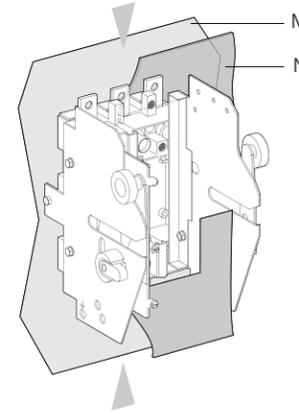


Through panel mounting



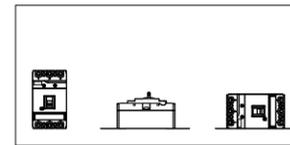
Rail mounting

Drawout wiring (BZMX/W)

**Advantages of drawout circuit breakers**

The drawout circuit breaker offers all the advantages that a plug-in type has, and is very easy to operate. The drawout circuit breaker has three positions:

- Connected position: Indicates that the power circuit is connected;
- Test position: Indicated that the power circuit is disconnected, and the circuit breaker can be operated to check the auxiliary circuit;
- Disconnected position: Indicates that the circuit breaker can be withdrawn from the cassette.

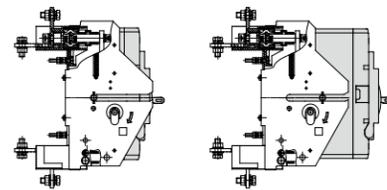


Mounting method

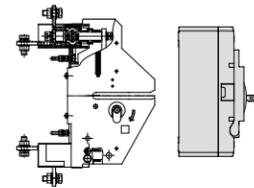
Drawout circuit breaker's configuration

When configuring the drawout circuit breaker, two side panels need to be installed separately on both the cassette and circuit breaker. Similar to the configuration for the plug-in type, when the circuit breaker is pulled in or out, the safety tripping device will automatically trip it if in the ON state, allowing it to be pulled in or out in the "Disconnected" position.

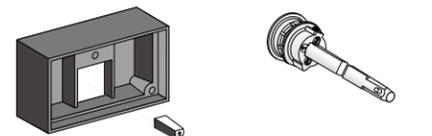
Drawout cassette



Connecting position Withdraw the circuit breaker



Withdrawal position



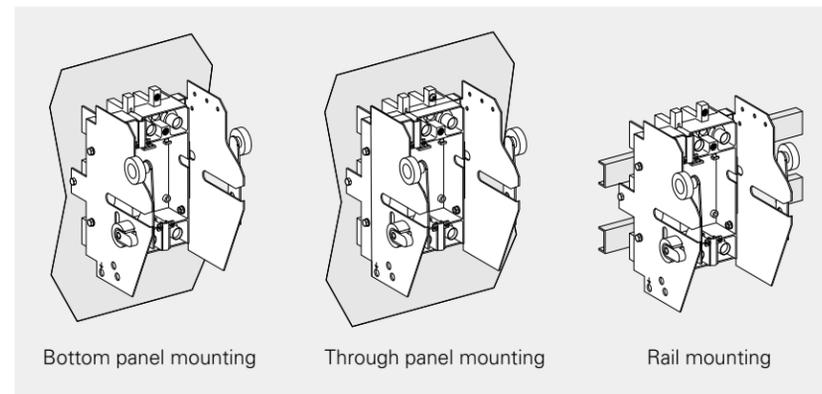
The cover is used for the dial switch, to ensure the IP4 protection level when at the "Connected" and "Disconnected" positions

Telescopic shaft

Accessory

The cassette used is the same as the plug-in base, in addition:

- Chassis auxiliary contacts, indicating the "connection position" and "test position" of the circuit breaker;
- Use 1 to 3 padlocks (5 to 8mm in diameter) to lock, you can achieve:
 - Prevent the insertion of the circuit breaker;
 - Lock the circuit breaker in the "connected position" or "withdrawn position";
- By flipping the switch sheath, the circuit breaker can ensure the appropriate protection level no matter where it is;
- Telescopic shaft used to extend the rotating handle. The door can be closed when the device is in the "connected position" and "withdrawn position".



Bottom panel mounting

Through panel mounting

Rail mounting

Plug-in cassette/drawout cassette

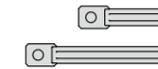
Accessory name	Frame	Catalogue No.	Ordering No.	Note
Plug-in cassette	BZMXm1	BZMXm1-3/P	CCX09078	
	BZMX1	BZMX1-3/P	CCX09079	
	BZMX2	BZMX2-3/P	CCX09080	
	BZMX3	BZMX3-3/P	CCX09081	
Drawout cassette	BZMX3	BZMX3-3/W	CCX09082	

Rear panel wiring (BZMX/F)

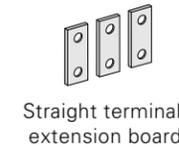
The circuit breaker is mounted on the bottom plate, and can be wired behind the bottom plate through the rear panel wiring terminal.

- Two lengths are available for the rear wiring terminal;
- The busbars can be placed at multiple angles, such as horizontal, vertical, or at a 45-degree angle to the horizontal level

Two lengths



Extension wiring board (BZMX/K)

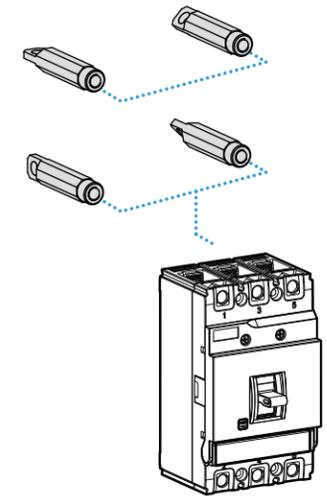


Straight terminal extension board



Inter-pole gap extension board

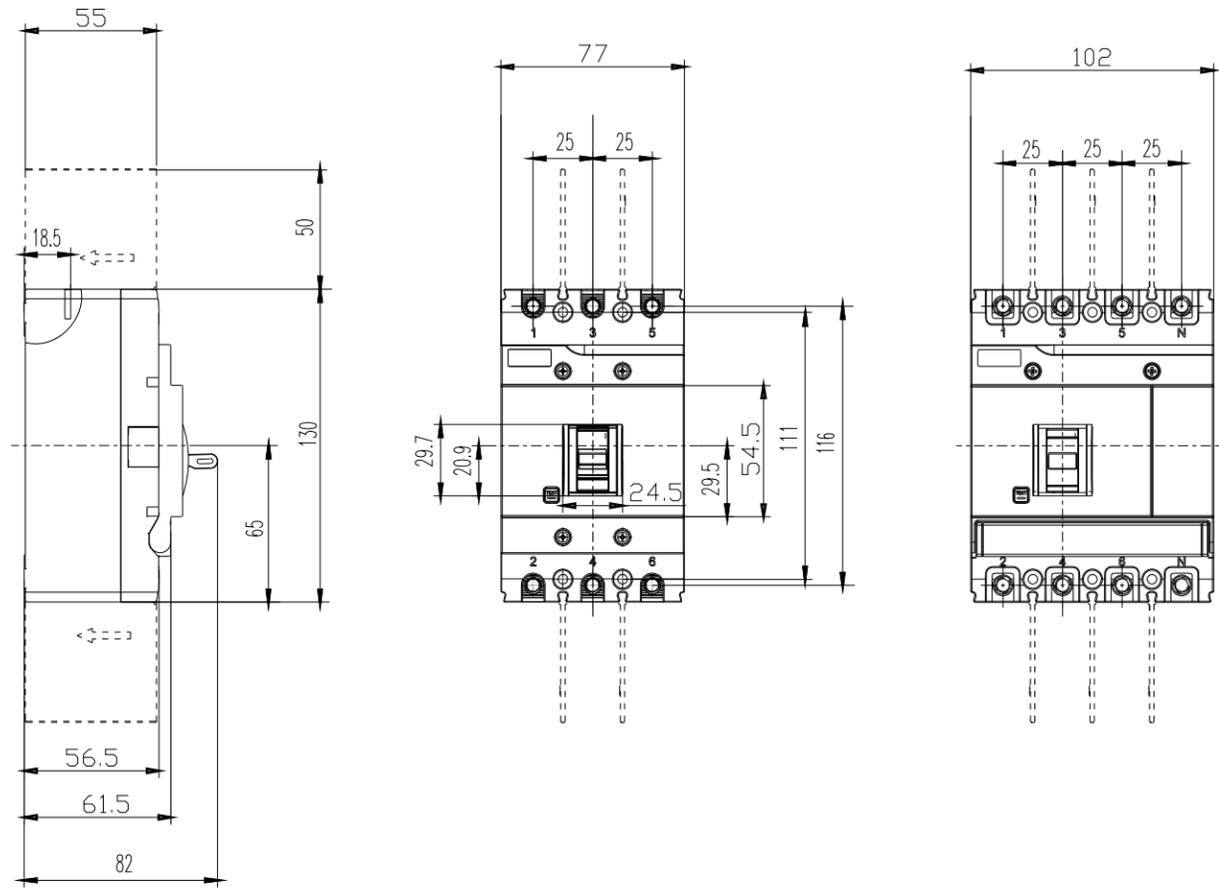
- Increase the distance between the circuit breaker terminals according to the incoming equipment, to improve inter-phase insulation



Rear panel wiring / extension wiring board

Accessory name	Frame	Catalogue No.	Ordering No.	Note
Rear panel wiring	BZMXm1	BZMXm1-3/F	CCX09062	Fixed rear panel wiring
		BZMXm1-4/F	CCX09063	
		BZMX1	BZMX1-3/F	
		BZMX1-4/F	CCX09065	
	BZMX2	BZMX2-3/F	CCX09066	
		BZMX2-4/F	CCX09067	
	BZMX3	BZMX3-3/F	CCX09068	
		BZMX3-4/F	CCX09069	
		Extension wiring board	BZMXm1	
BZMXm1-4/K2 BZMX1-4/K2(EX)	CCX09084			
BZMXm1-3/K3 BZMX1-3/K3(EX)	CCX09085			K3: Inter-pole gap extension board
BZMXm1-4/K3 BZMX1-4/K3(EX)	CCX09086			
BZMX1	BZMX1-3/K2(AX)		CCX09087	
	BZMX1-4/K2(AX)		CCX09088	
	BZMX1-3/K3(AX)		CCX09120	
	BZMX1-4/K3(AX)		CCX09121	
	BZMX2		BZMX2-3/K2	CCX09089
			BZMX2-4/K2	CCX09090
BZMX2-3/K3			CCX09091	
BZMX2-4/K3			CCX09092	
BZMX3	BZMX3-3/K2 400A	CCX09093		
	BZMX3-4/K2 400A	CCX09094		
	BZMX3-3/K2 630A	CCX09095		
	BZMX3-4/K2 630A	CCX09096		
	BZMX3-3/K3 400A	CCX09097		
	BZMX3-4/K3 400A	CCX09098		
	BZMX3-3/K3 630A	CCX09099		
	BZMX3-4/K3 630A	CCX09100		

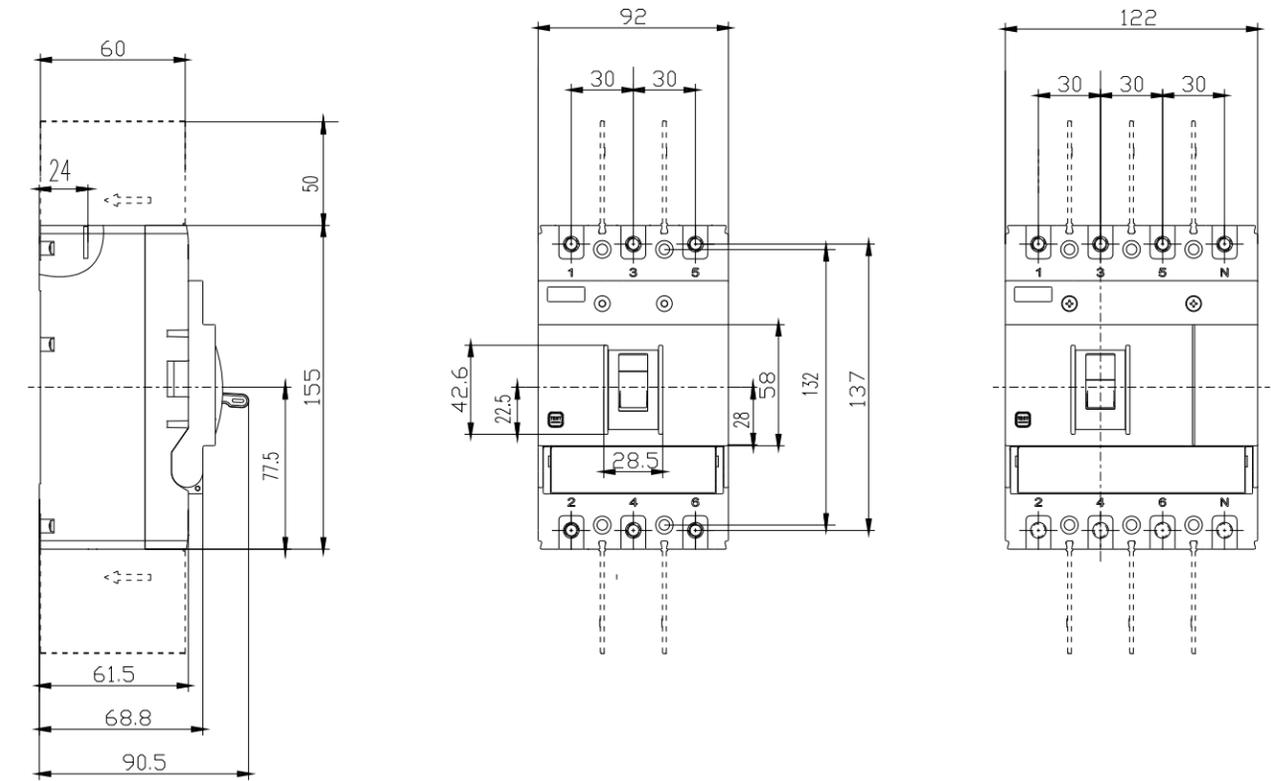
BZMXm1-AX/ BZMXm1-M's basic devices



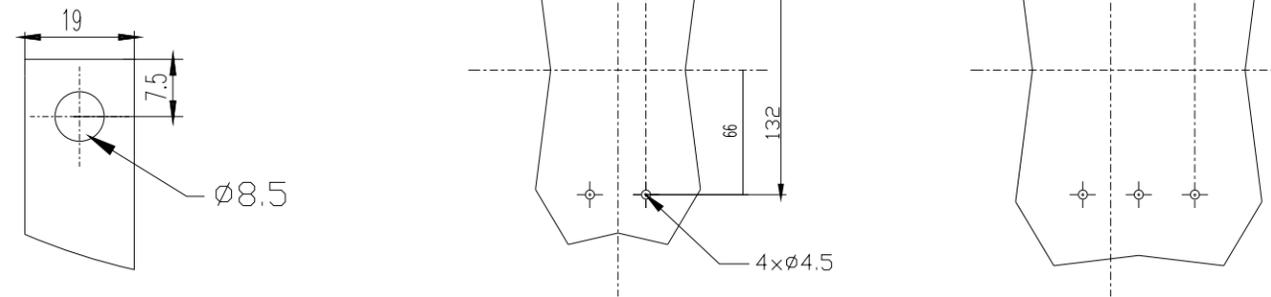
Wiring board dimensions



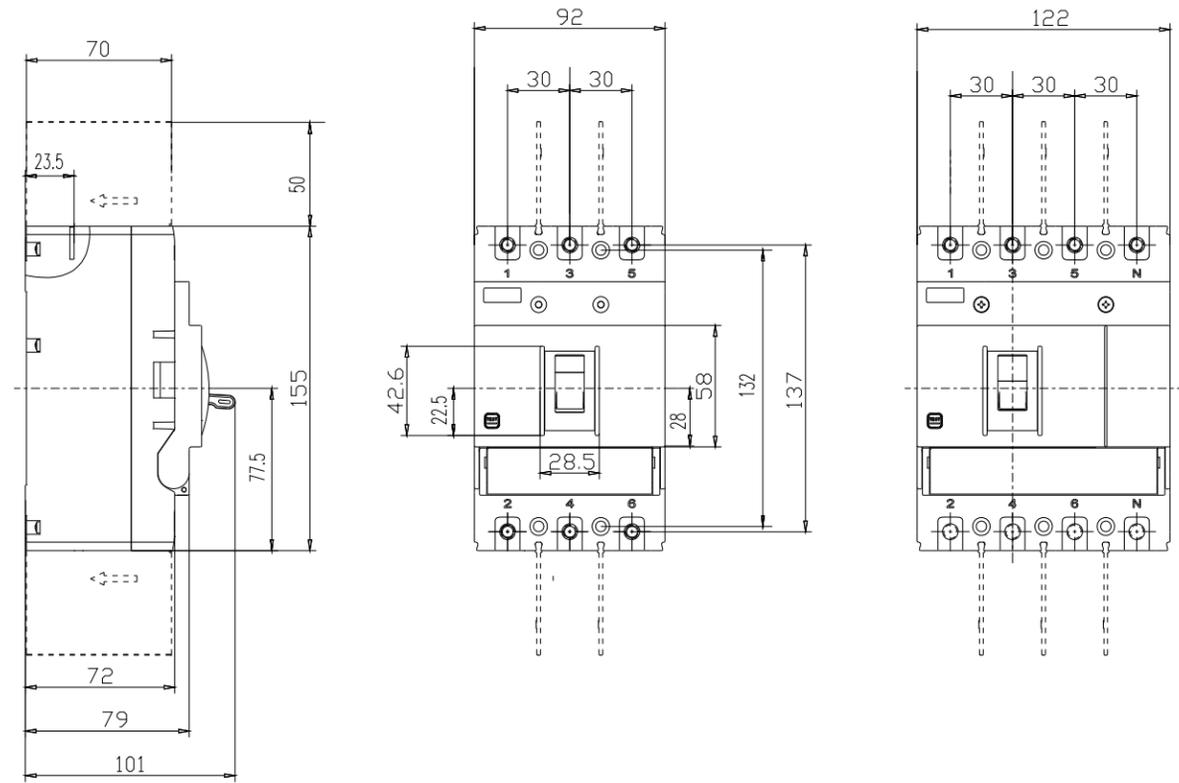
BZMX1-AX/ BZMX1-M's basic devices



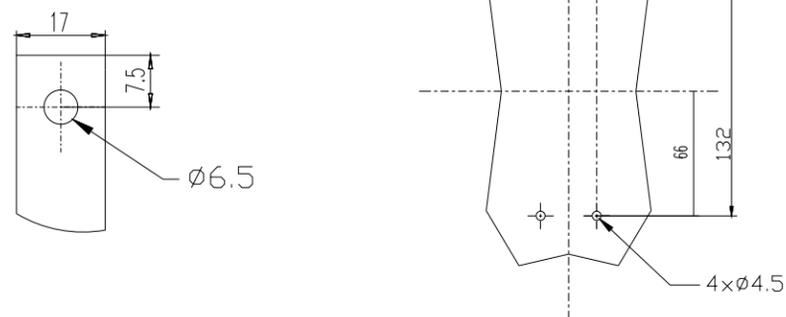
Wiring board dimensions



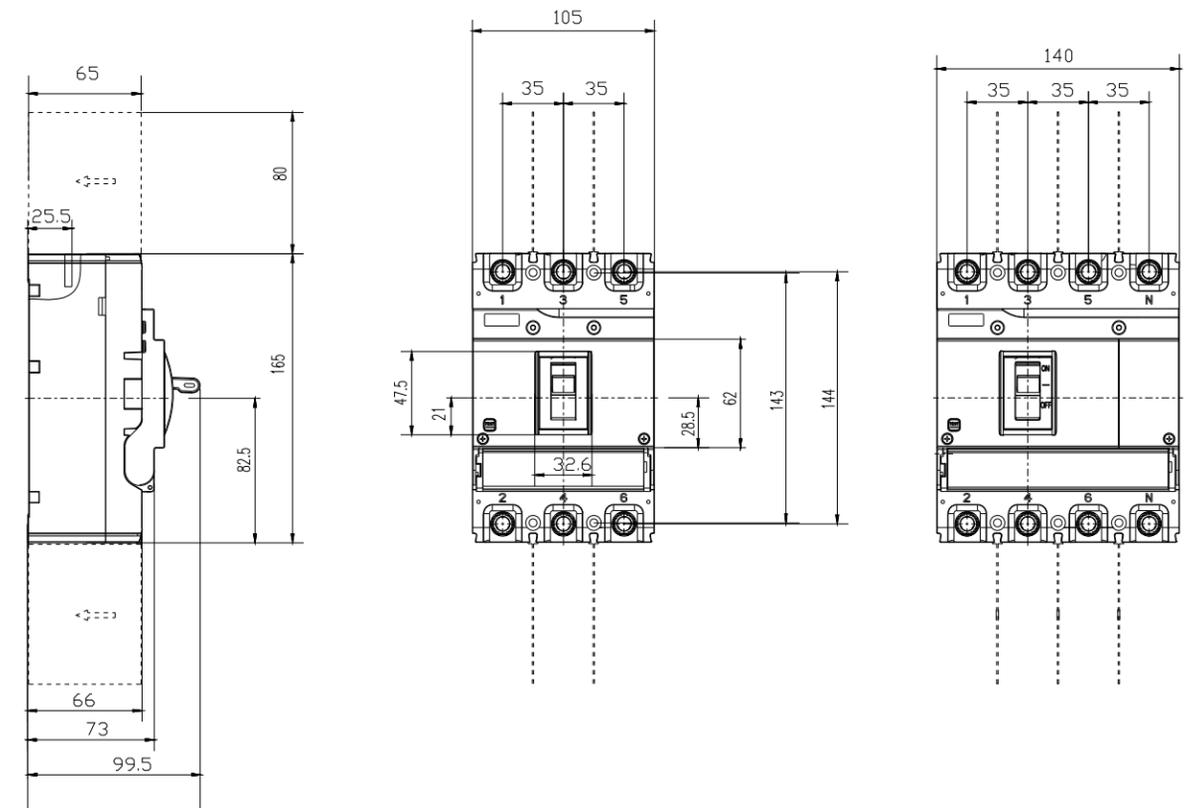
BZMX1-EX's basic devices



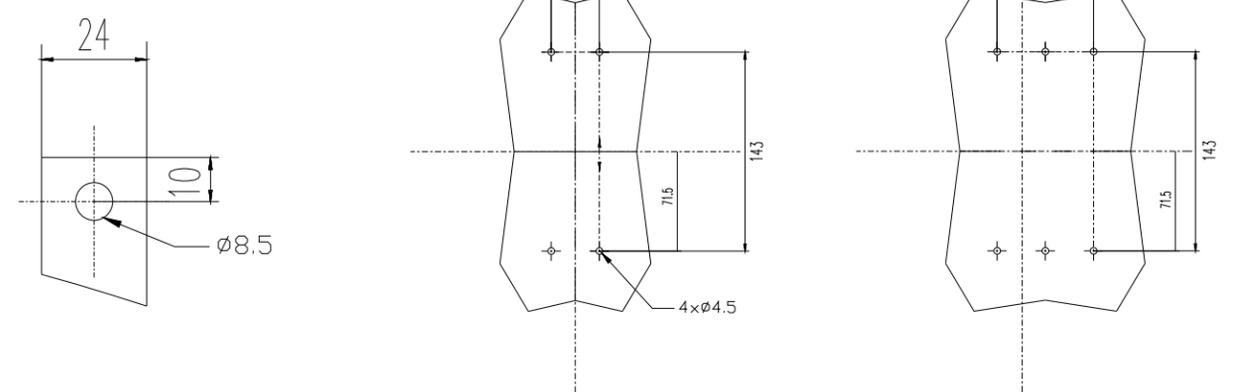
Wiring board dimensions



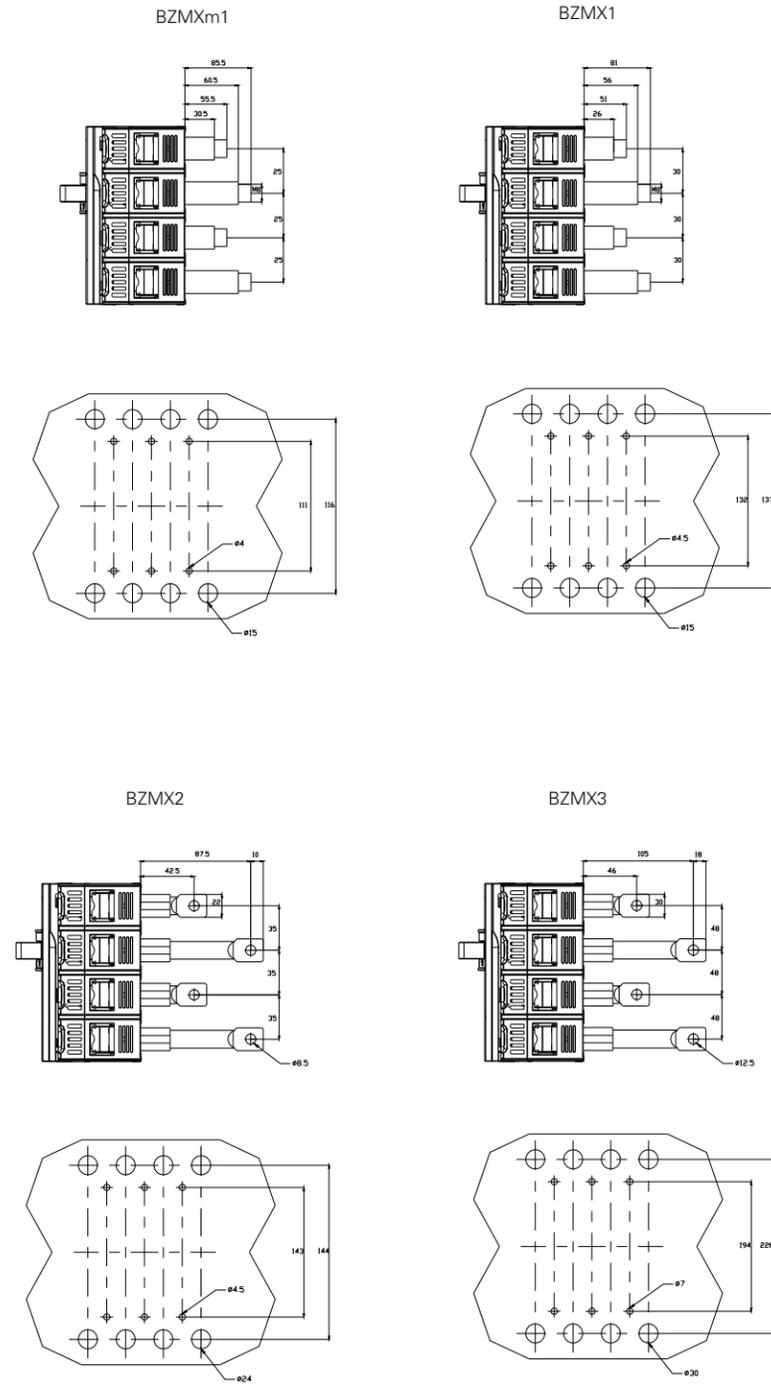
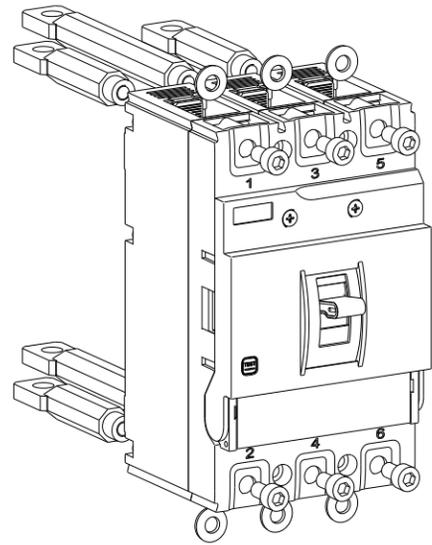
BZMX2-AX/BZMX2-M/BZMX2-SW basic devices



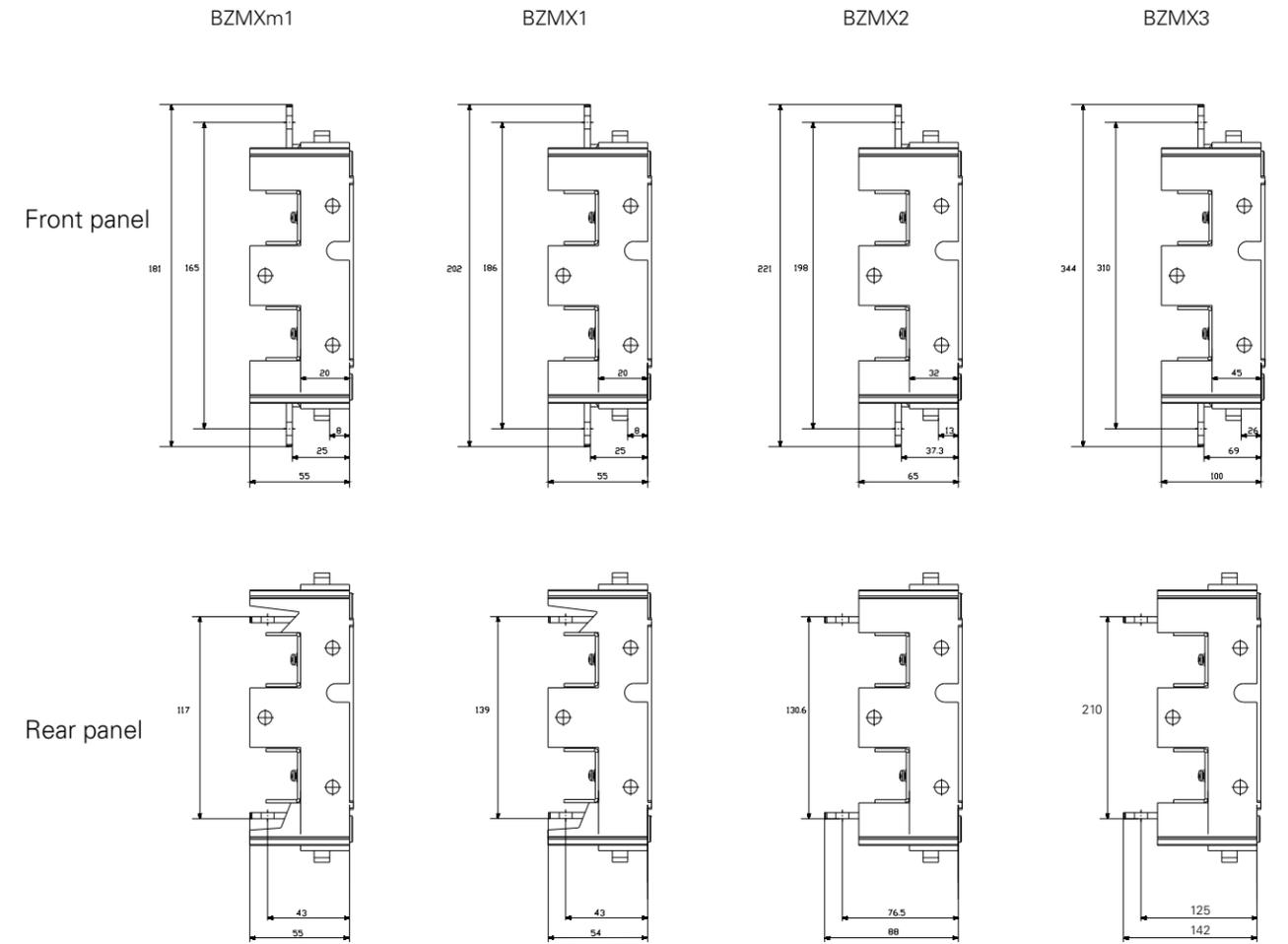
Wiring board dimensions



Rear panel wiring and mounting

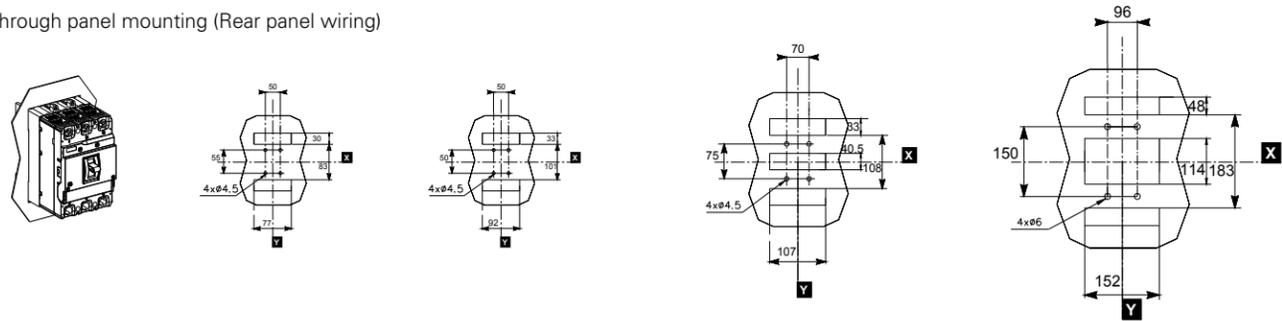


Plug-in wiring and mounting

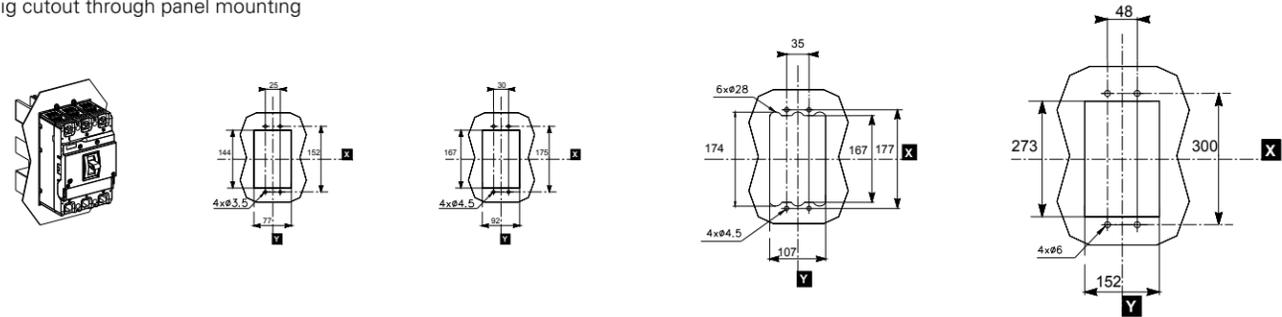


Plug-in wiring and mounting

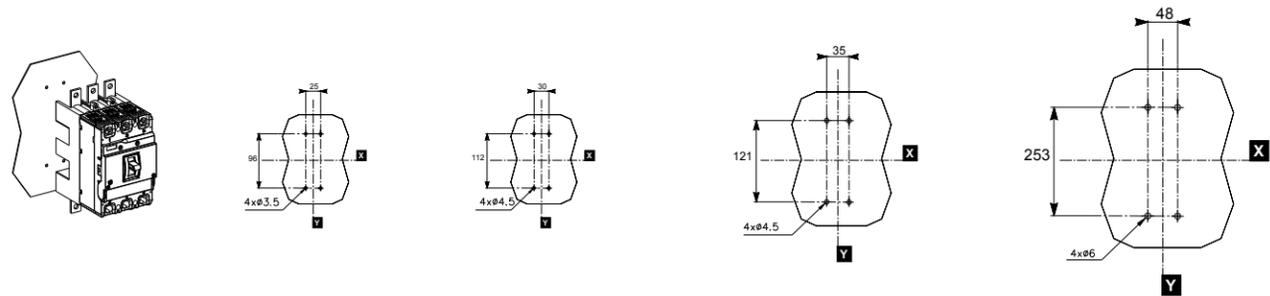
Through panel mounting (Rear panel wiring)



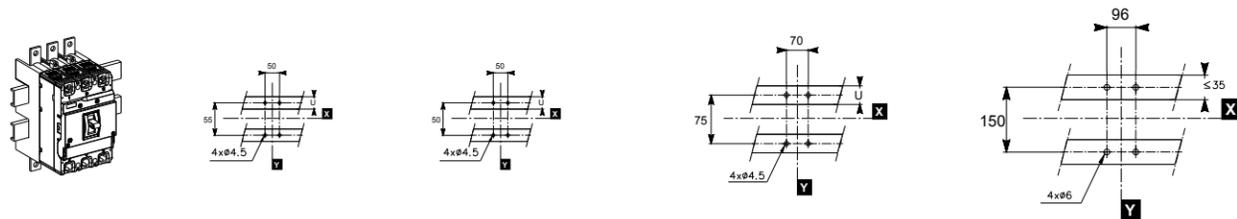
Big cutout through panel mounting



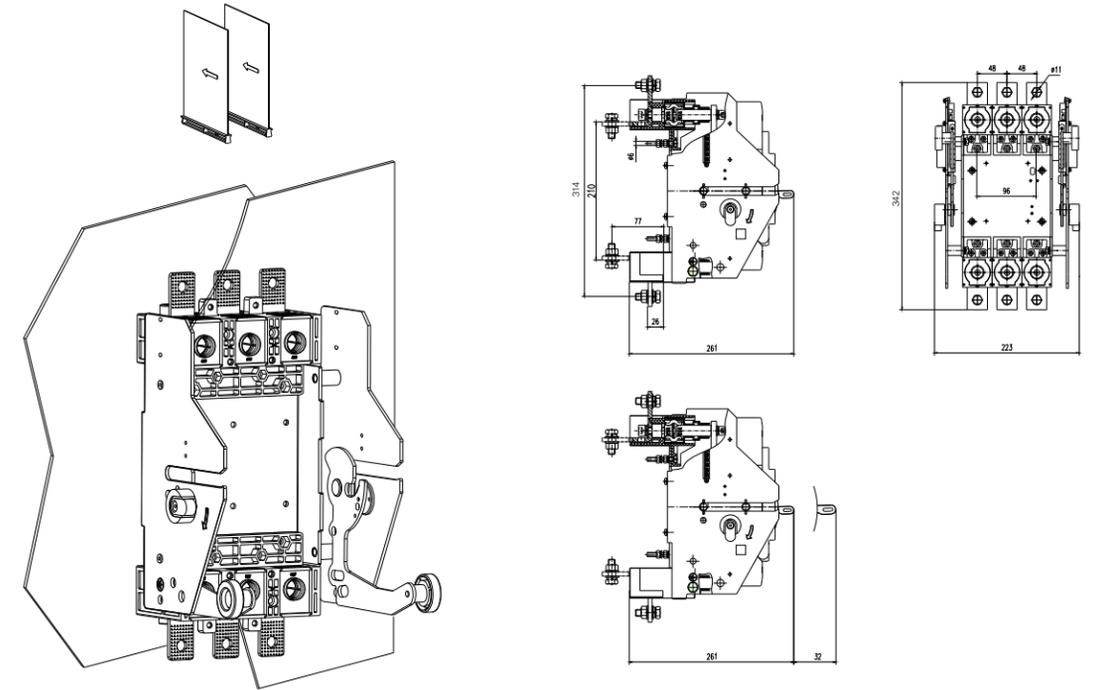
Bottom panel mounting



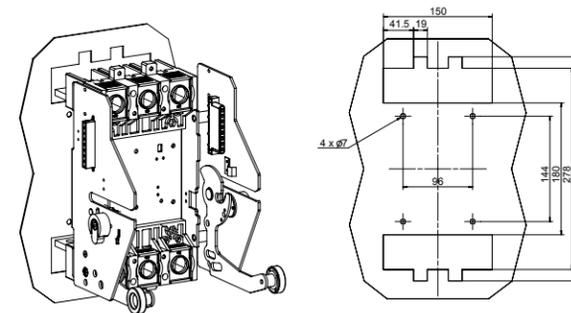
Rail mounting



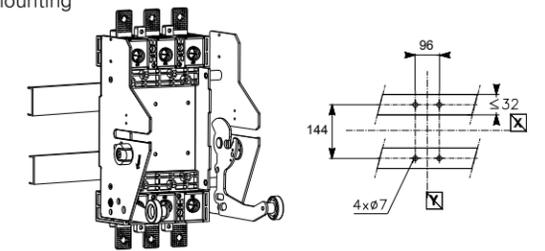
Drawout wiring and mounting



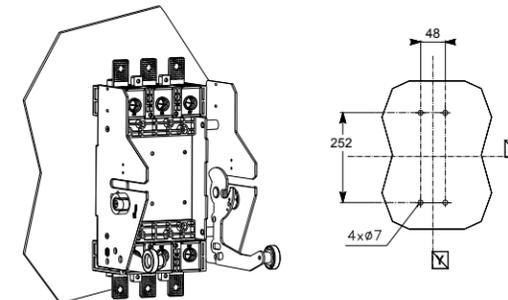
Through panel mounting



Rail mounting

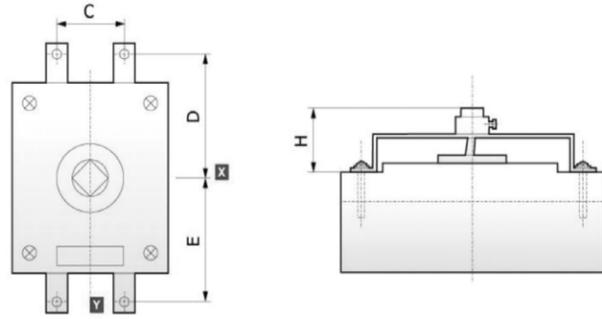


Bottom panel mounting



BZMX manual operator dimensions

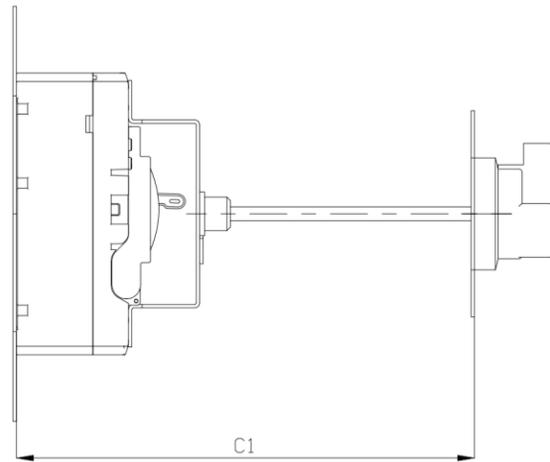
Centric type



CS1

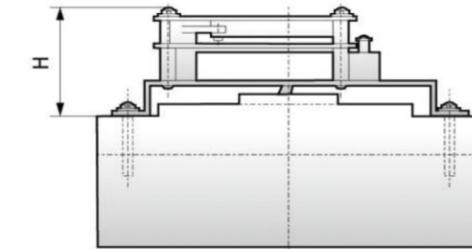
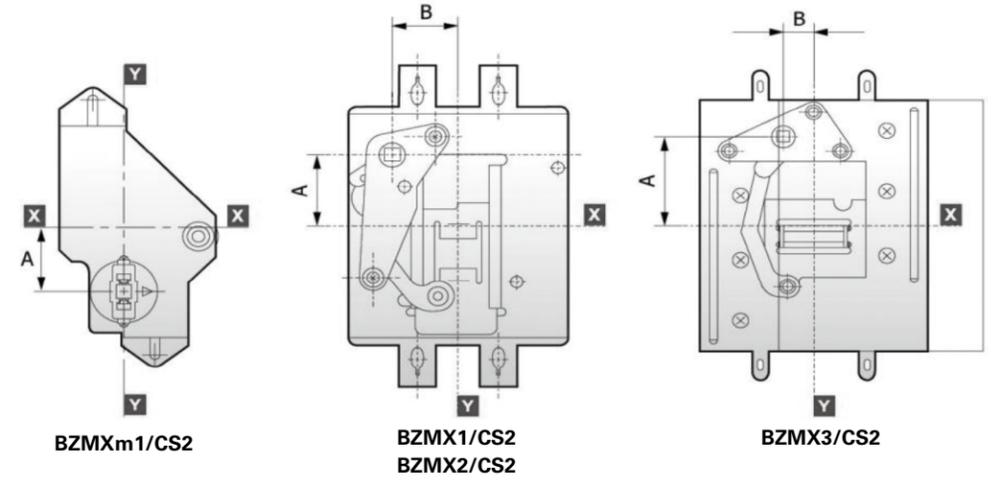
For horizontal and vertical mounting of the circuit breaker

Catalog No.	C	D	E	H	Note
BZMXm1/CS1	25	55.5	55.5	52	For horizontal and vertical mounting of the circuit breaker (center cutout)
BZMX1/CS1	30	66	66	52	
BZMX2/CS1	35	71.5	71.5	56	
BZMX3/CS1	48	97	97	87	



Catalog No. of equipped circuit breaker	Catalog No. of manual operator	C1 minimum	C1 maximum	Manual operating rod Minimum retention value
BZMXm1	BZMXm1/CS1	116.5	267.5	49
BZMX1-AX/M/SW	BZMX1/CS1	122.5	273.5	49
BZMX1-EX	BZMX1/CS1	133	284	49
BZMX2-AX/M/SW	BZMX2/CS1	132	283	49
BZMX2-EX	BZMX2/CS1	149.5	300.5	49
BZMX3	BZMX3/CS1	188	339	49

Eccentric type

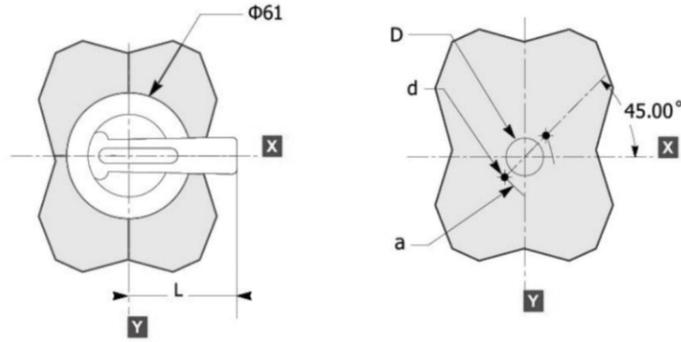


CS2

Catalog No.	A	B	H	Note
BZMXm1/CS2	28	-	44	For horizontal and vertical mounting of the circuit breaker (eccentric cutout)
BZMX1/CS2	35	8.5	50	
BZMX2/CS2	35	31	46	
BZMX3/CS2	68	15	59	

Dimensions and door cutouts

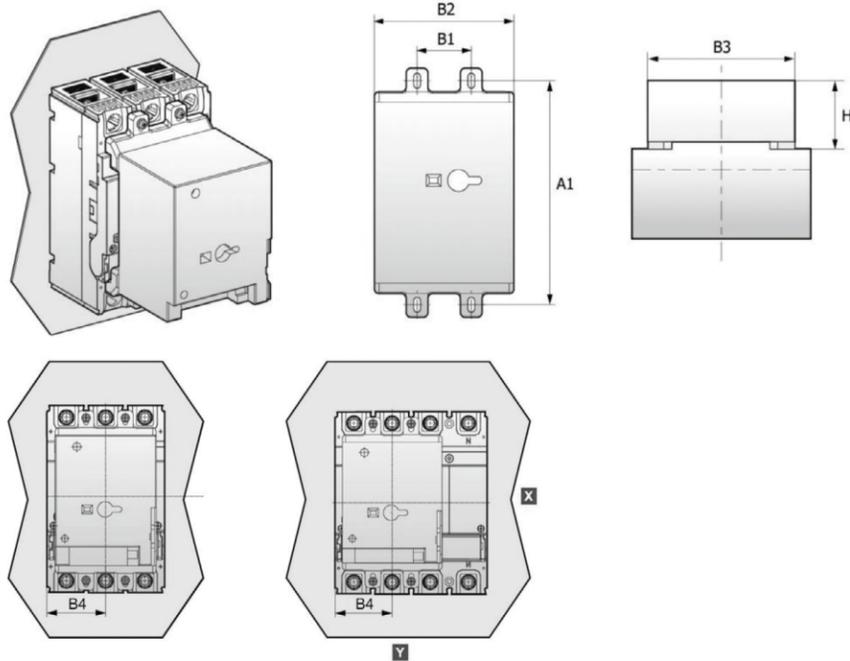
Type R (R1 dimensions for BZMXm1/BZMX1/BZMX2 and R2 dimensions for BZMX3)



Handle dimension	D	d	a	L
R1	φ34	φ5.5	φ53	65
R2	φ34	φ5.5	φ53	95

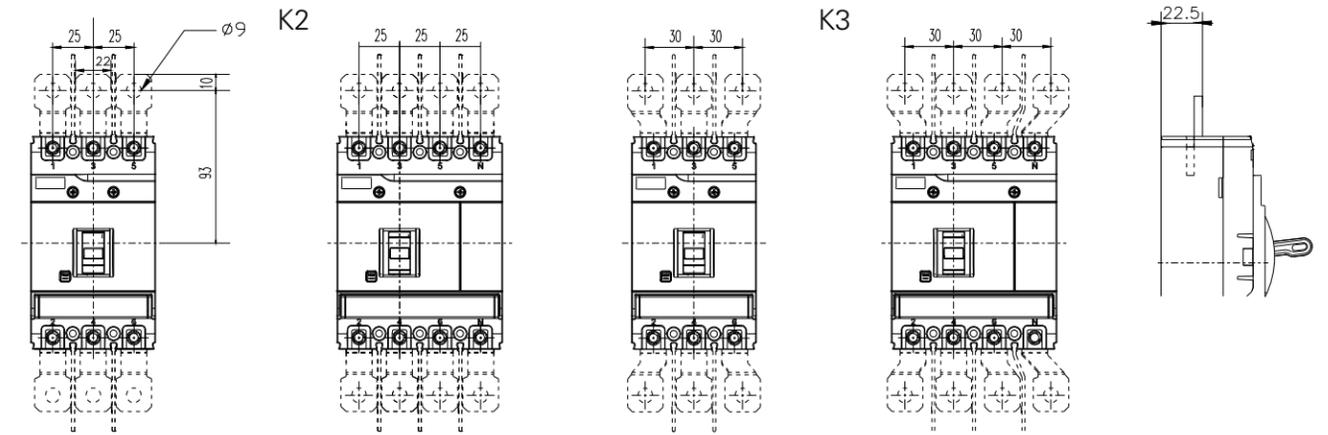
Note: The standard length for the CS1 and CS2's connecting rotary handle and the operator's square shaft is 200mm.

BZMX motor operator dimensions

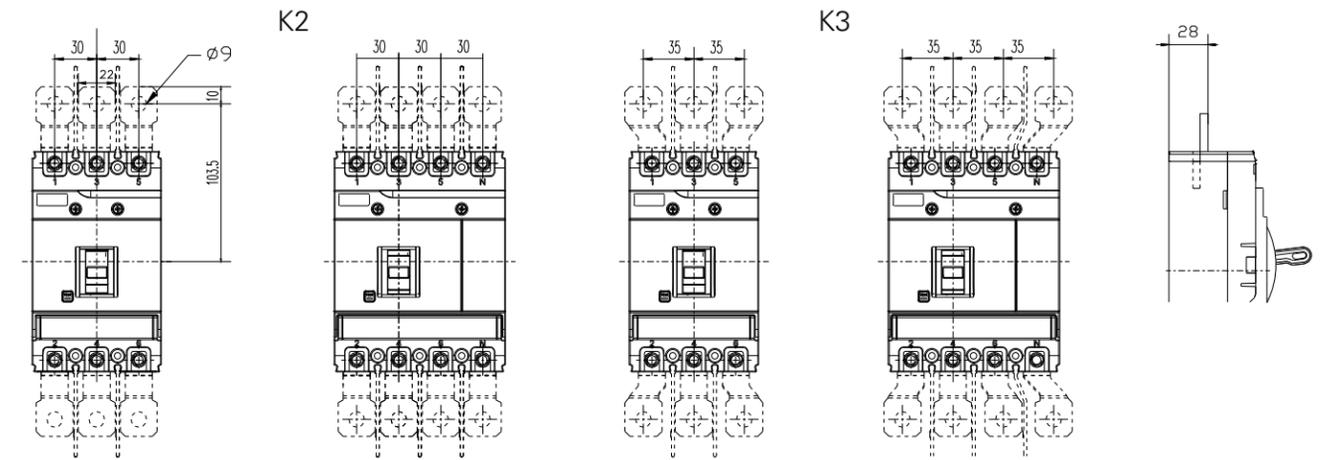


Catalog No. of equipped circuit breaker	Catalog No. of motor operator	A1	B1	B2	B3	H	B4
BZMXm1	BZMXm1/CD2	111	25	74	102	95	38.5
BZMX1-AX/M/SW	BZMX1/CD2	132	30	90.5	116	95	46
BZMX1-EX		132	30	90.5	116	95	46
BZMX2-AX/M/SW	BZMX2/CD2	143	35	90.5	116	97	52.5
BZMX2-EX		143	35	90.5	116	97	52.5
BZMX3	BZMX3/CD2	194	48	129	175	156	75

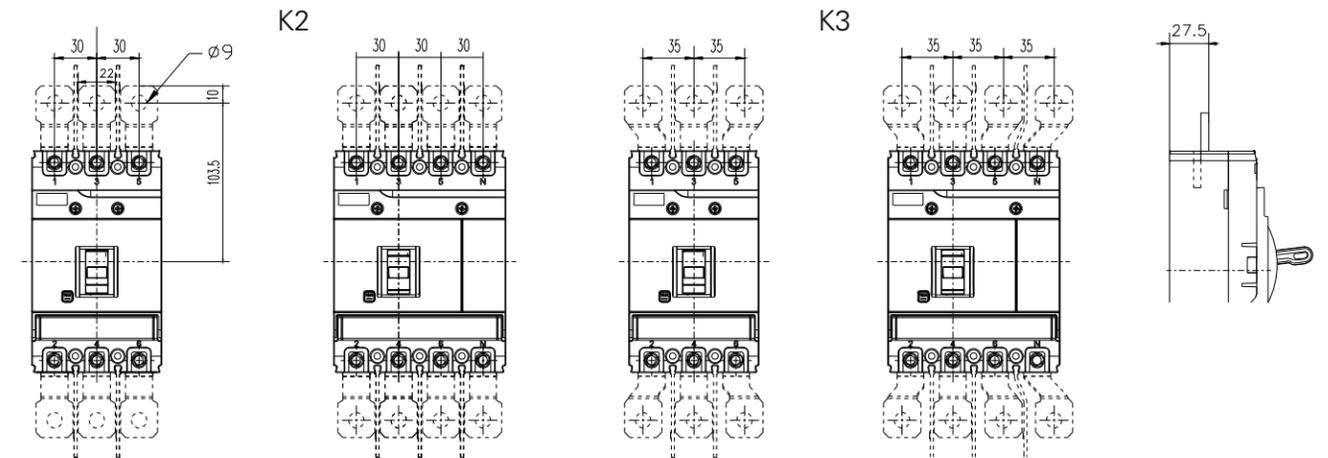
Extension board of BZMXm1-AX (22mm width x 4mm thickness)



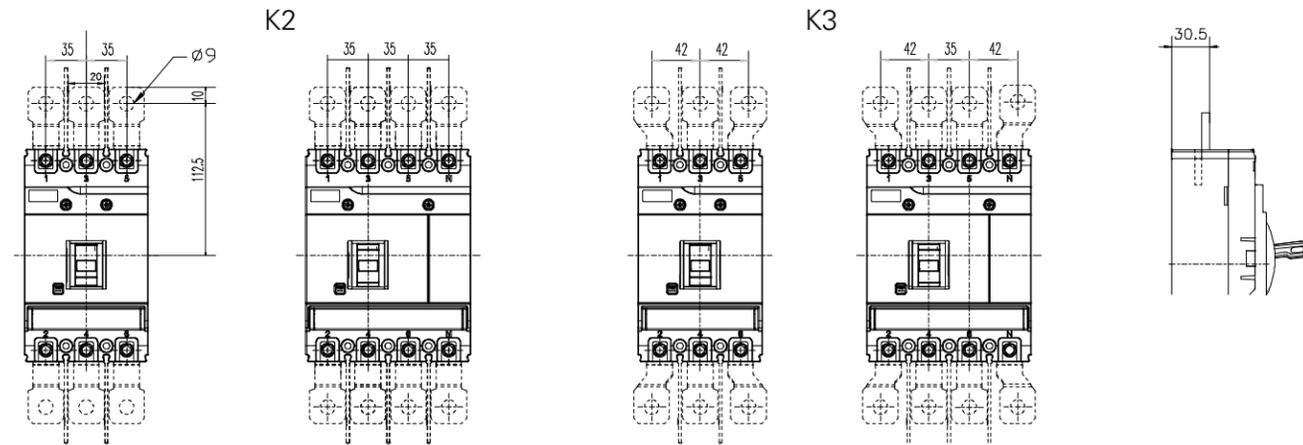
Extension board of BZMX1-AX (22mm width x 4mm thickness)



Extension board of BZMX1-EX (22mm width x 4mm thickness)

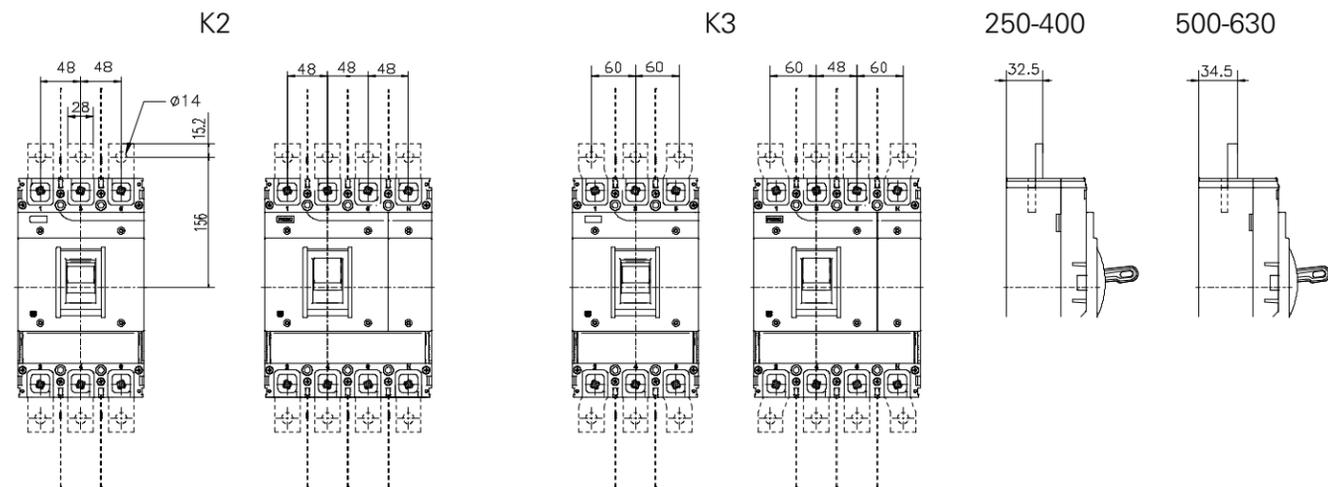


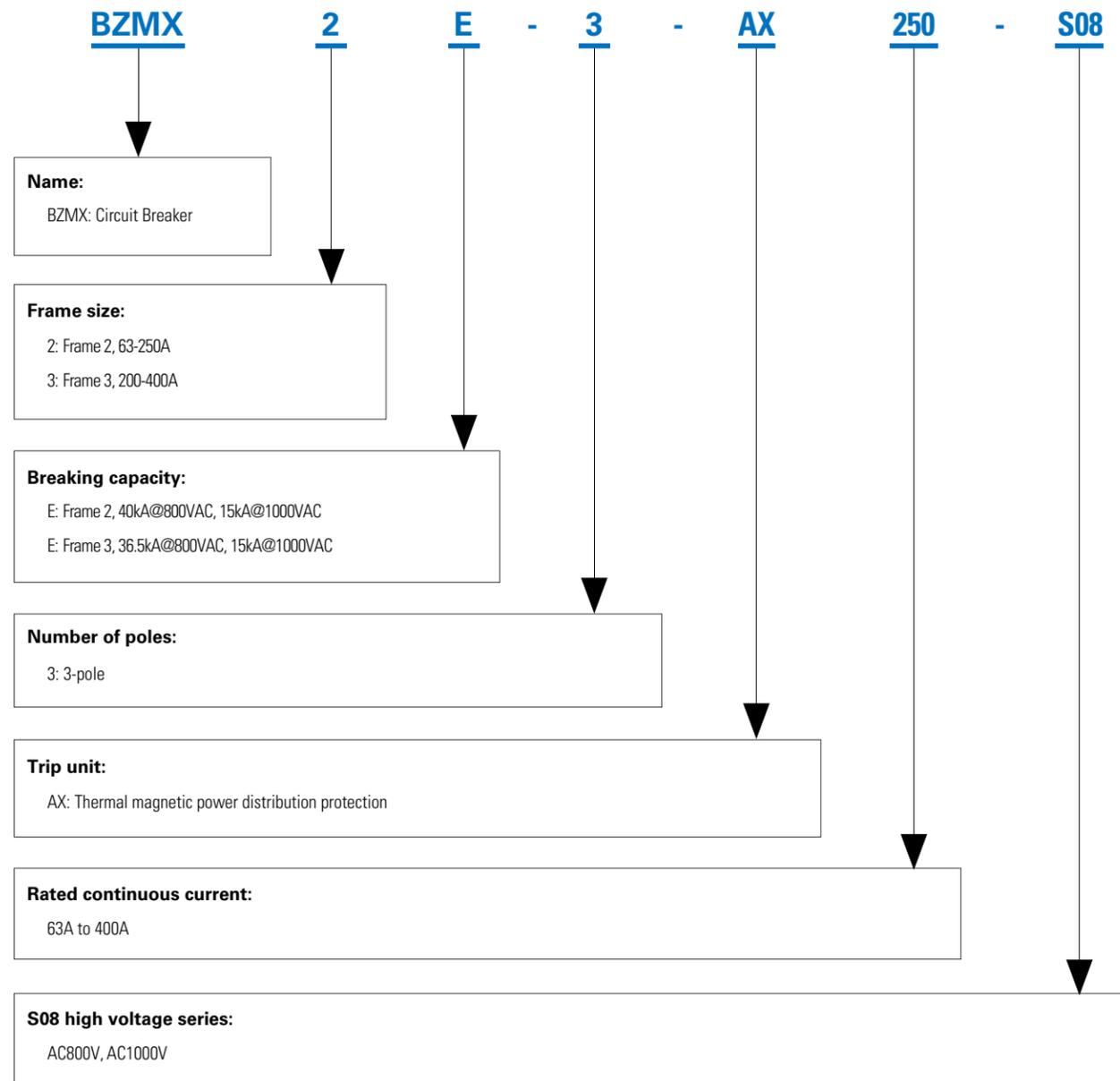
Extension board of BZMX2-AX, BZMX2-M and BZMX2-EX (20mm width x 5mm thickness)



Extension board of BZMX3-AX, BZMX3-M, and BZMX3-EX

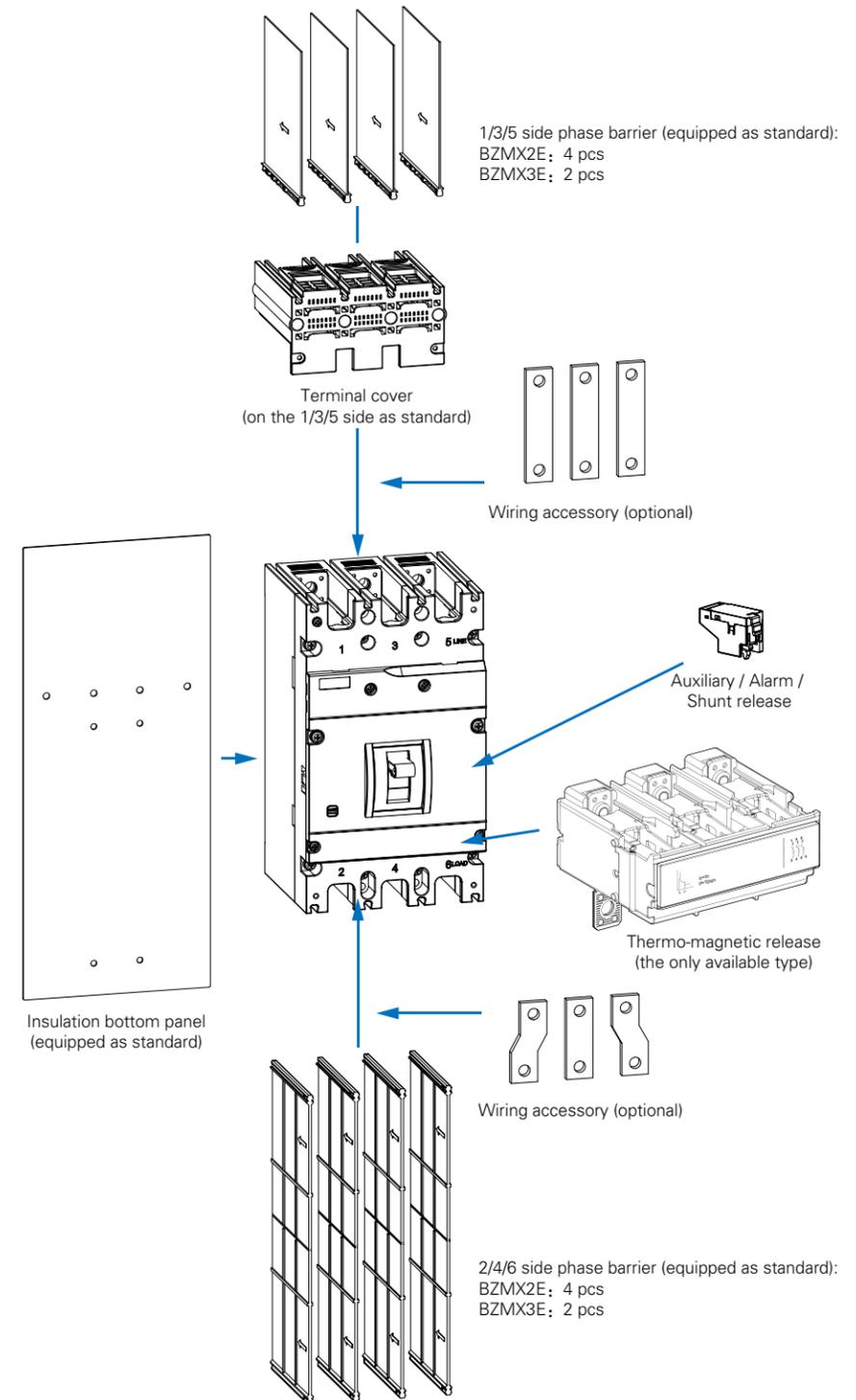
(28mm width x 6mm thickness for 250 to 400A and 28mm width x 8mm thickness for 500- 630A)

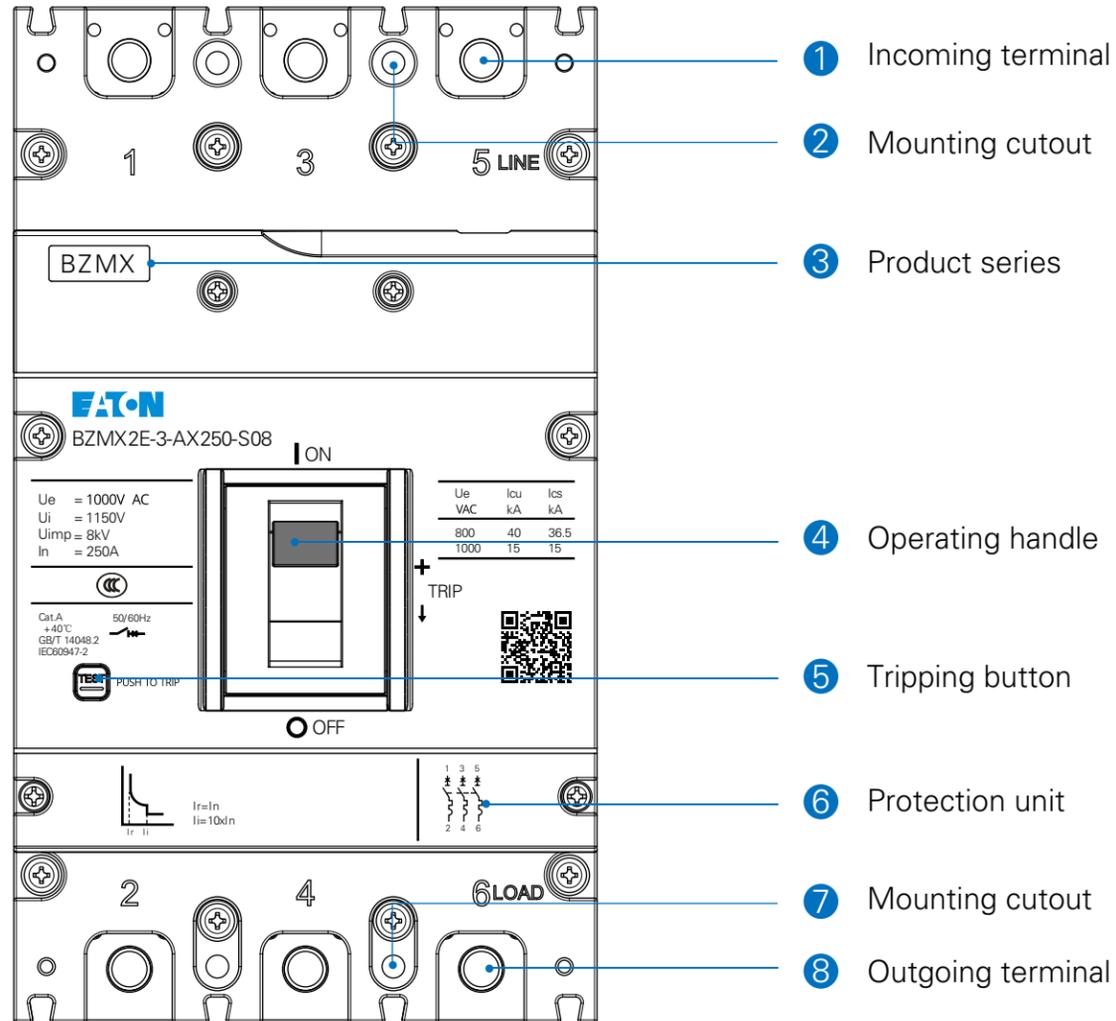




Notes:

1. The circuit breaker is wired to the transformer at its 1/3/5 side, and to the inverter at its 2/4/6 side;
2. Only 3P devices are available for S08 high voltage series.

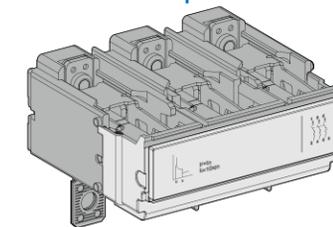
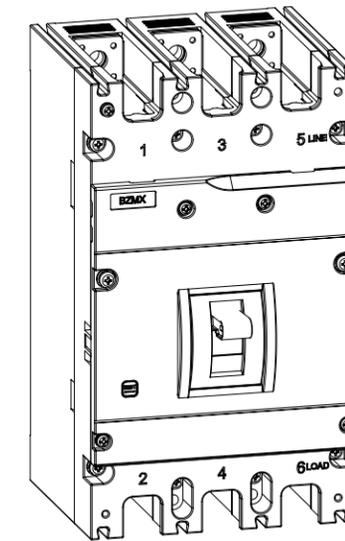




Protection unit description

Only thermo-magnetic power distribution protection is available for the protection unit of the BZMX-S08 series molded case circuit breakers.

- Protects the power source cable on the PV inverter side;
- Offers two-stage protection functions - overload and short circuit.



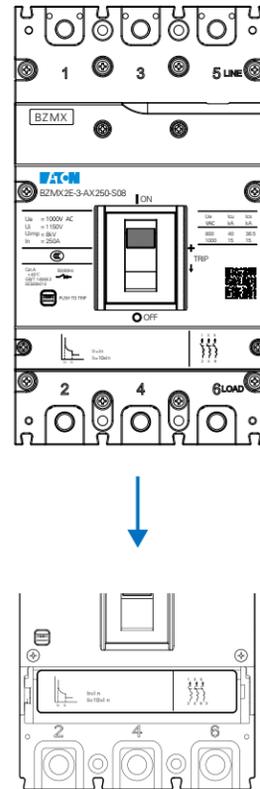
AX thermo-magnetic protection unit
(power distribution protection)

BZMX-S08 series thermo-magnetic MCCBs (AX: thermo-magnetic)

		BZMX2E-3-AX**-S08	BZMX3E-3-AX**-S08
			
		3P	3P
Number of poles	Manual operator	—	—
	Motor operator	—	—
Wiring	Front panel wiring	■	■
	Rear panel wiring	—	—
	Plug-in type	—	—
	Drawout type	—	—
Electrical specifications in accordance with IEC 60947-2, GB/T 14048.2			
Rated current of trip units In (A)		63 80 100 125 140 160 180 200 225 250	200 250 315 350 400
Rated insulation voltage (V)		U _i AC1150	AC1150
Rated impulse withstand voltage (kV)		U _{imp} 8	8
Rated operating voltage (V)		U _e AC800/AC1000	AC800/AC1000
Circuit breaker type		E	E
Rated ultimate short-circuit breaking capacity (kA)	I _{cu} AC 50/60 Hz	800V 1000V	36.5 15
	I _{cs} AC 50/60 Hz	800V 1000V	36.5 15
Rated ultimate short-circuit making capacity (kA)	I _{cm} AC 50/60 Hz	800V 1000V	84 31.5
	I _{sc} AC 50/60 Hz	800V 1000V	76.6 31.5
Utilization category		A	A
Number of operating cycles	Maintenance-free	Mechanical	10000
	Electrical	AC800V	1500
		AC1000V	1000
Protection unit			
Protection unit		Thermo-magnetic	Thermo-magnetic
Over-load protection	Long delay	I _t (I _n ×...)	■
	Short delay	I _{sd} (I _n ×...)	—
Short-circuit protection	Instantaneous	I _i (I _n ×...)	■
		I _g (I _n ×...)	—
Indication and control accessories			
Alarm switch		■	■
Auxiliary switch		■	■
Shunt release		■	■
Under-voltage release		—	—
Mounting			
Accessory	Wiring terminal (optional)	■	■
	Phase barrier (standard)	■	■
	Insulation bottom panel (standard)	■	■
	Zero arcing shield (standard)	■	■
Storage temperature		-40°C ~ +70°C	-40°C ~ +70°C
Operating temperature		-40°C ~ +70°C	-40°C ~ +70°C

Notes:
1. The circuit breaker can operate at the ambient temperature of -40°C to +70°C, and the 24-hour average temperature does not exceed 35°C. When between +40°C ~ +70°C, derating is needed for customer use. For derating coefficients, please refer to the "Temperature Derating Coefficient Table".

Protection unit overview



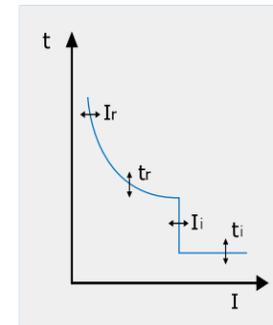
AX: Thermo-magnetic protection unit (power distribution protection)

AX: Thermo-magnetic protection unit (power distribution protection)

Thermal fixed type: rated currents of 63A to 400A
Magnetic fixed type: rated currents of 630A to 4000A



BZMX-S08-AX protection units



AX: Protection characteristic data table

Rated current (A)	Inverse time action characteristics (ambient air temperature +40°C)		
	1.05 In (cold state) no-action time	1.3 In (hot state) action time	Instantaneous action current (A)
$I_n \leq 63$	≥ 1 h	< 1 h	$10 I_n \pm 20\%$
$63 < I_n \leq 400A$	≥ 2 h	< 2 h	$10 I_n \pm 20\%$

Power loss

Circuit breaker type	Rated current (A)	3-phase total power loss (W)
		Fixed type front panel wiring
BZMX2E	250	47
BZMX3E	400	96

Temperature derating coefficient

Circuit breaker type	+40°C	+45°C	+50°C	+55°C	+60°C	+65°C	+70°C
BZMX2E	$1.0 I_n$	$1.0 I_n$	$1.0 I_n$	$1.0 I_n$	$0.98 I_n$	$0.95 I_n$	$0.92 I_n$
BZMX3E	$1.0 I_n$	$1.0 I_n$	$1.0 I_n$	$1.0 I_n$	$0.97 I_n$	$0.94 I_n$	$0.91 I_n$

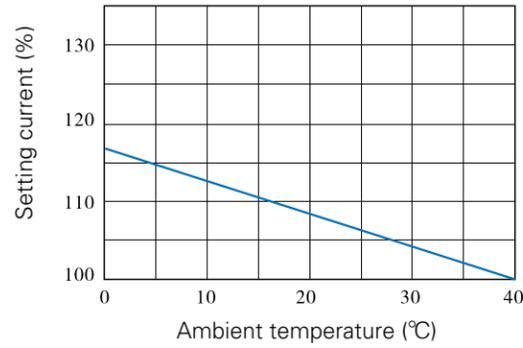
High altitude derating coefficient

Description	Specifications						
Altitude (m)	2000	2500	3000	3500	4000	4500	5000
Power frequency withstand voltage (V)	3000	3000	2500	2400	2200	2100	2000
Insulation voltage (V)	1150	1150	1030	970	920	880	835
Maximum operating voltage (V)	1000	1000	900	850	810	770	730
Short-circuit breaking capacity correction coefficient	1	1	0.9	0.82	0.78	0.75	0.7
Operating current correction coefficient	1	1	0.98	0.97	0.96	0.95	0.94

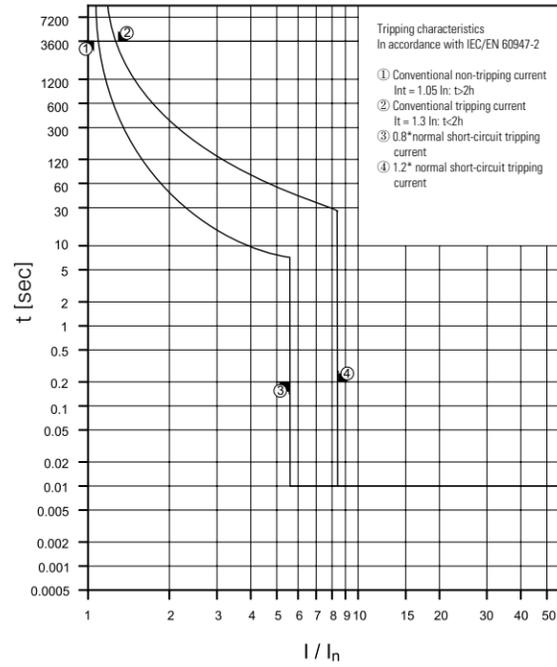
BZMX protective action characteristic curves

BZMX2E-AX (thermo-magnetic type)

Current-temperature characteristics

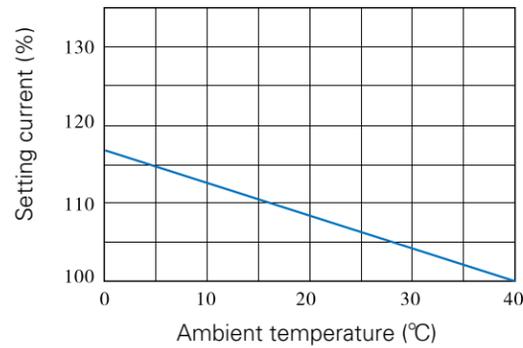


Time/current characteristic curves

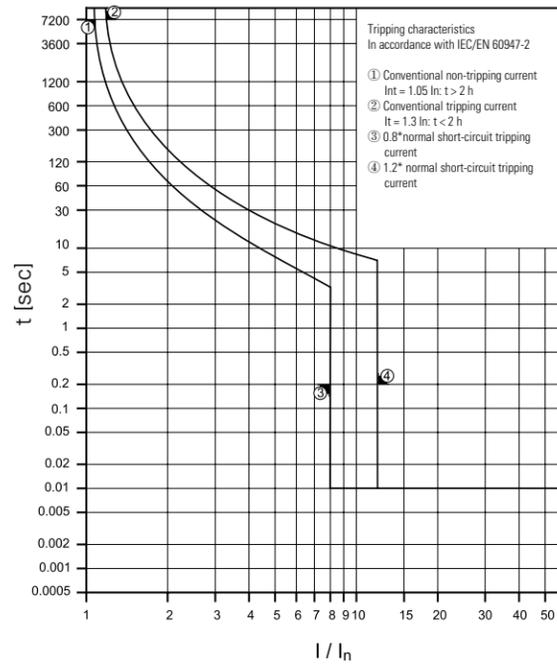


BZMX3E-AX (thermo-magnetic type)

Current-temperature characteristics



Time/current characteristic curves



BZMX-S08 thermo-magnetic power distribution protection

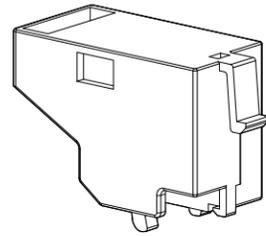
Rated current = Rated continuous current $I_n = I_u$ A	3P 800V/1000V 50/60Hz Catalogue No. Article No.	3P 800V/1000V 50/60Hz Catalogue No. Article No.
63	BZMX2E-3-AX63-S08 CCX10001	
80	BZMX2E-3-AX80-S08 CCX10002	
100	BZMX2E-3-AX100-S08 CCX10003	
125	BZMX2E-3-AX125-S08 CCX10004	
140	BZMX2E-3-AX140-S08 CCX10005	
160	BZMX2E-3-AX160-S08 CCX10006	
180	BZMX2E-3-AX180-S08 CCX10007	
200	BZMX2E-3-AX200-S08 CCX10008	
225	BZMX2E-3-AX225-S08 CCX10009	
250	BZMX2E-3-AX250-S08 CCX10010	
200		BZMX3E-3-AX200-S08 CCX10011
250		BZMX3E-3-AX250-S08 CCX10012
315		BZMX3E-3-AX315-S08 CCX10013
350		BZMX3E-3-AX350-S08 CCX10014
400		BZMX3E-3-AX400-S08 CCX10015

BZMX2E



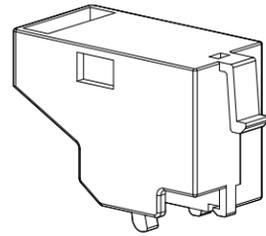
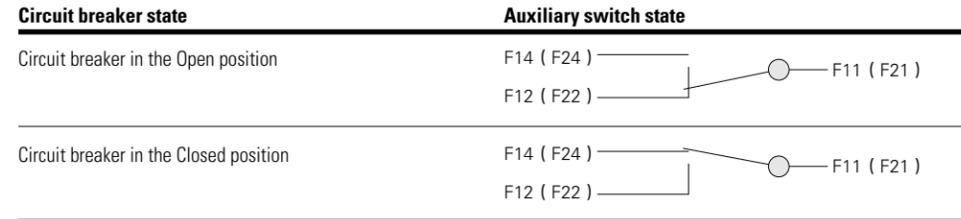
BZMX3E





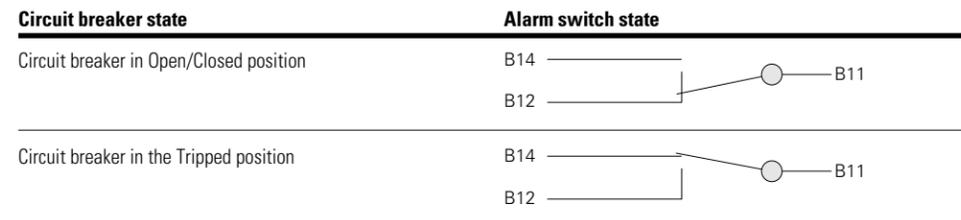
BZMX auxiliary switch

Auxiliary contact (BZMX/Z)



BZMX alarm contact

Alarm contact (BZMX/ZA)



Rated operating currents of alarm contacts and auxiliary contacts

Contact type	Rated current I_{nm}	Conventional thermal current $I_{th}(A)$	Rated operating current $I_e(A)$	
			AC400V	DC220V
Auxiliary contact	≤ 250	3	0.3	0.15
	$400 \leq I_{nm} \leq 1000$	3	0.4	0.2
Alarm contact	$10 \leq I_{nm} \leq 1000$	-	AC220V/1.0A	0.15

Making and breaking capacity of alarm contacts and auxiliary contacts under normal conditions

Utilization category	Makinig (ON)				Breaking (OFF)				Power-on operation cycles	Number of operating cycles per minute	Power-on duration
	I/I_e	U/U_e	$\cos \phi$	$T_{0.95}$	I/I_e	U/U_e	$\cos \phi$	$T_{0.95}$			
AC-14	10	1	0.7	-	1	1	0.7	-	6050	6	$\geq 0.05s$
DC-13	1	1	-	$6 \times P_e$	1	1	-	$6 \times P_e$			$\geq 0.05s$

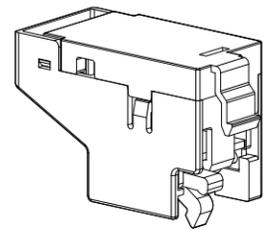
Making and breaking capacity of alarm contacts and auxiliary contacts under abnormal conditions

Utilization category	Makinig (ON)				Breaking (OFF)				Power-on operation cycles	Number of operating cycles per minute	Power-on duration
	I/I_e	U/U_e	$\cos \phi$	$T_{0.95}$	I/I_e	U/U_e	$\cos \phi$	$T_{0.95}$			
AC-14	6	1	0.7	-	1	1	0.7	-			$\geq 0.05s$
DC-13	1.1	1.1	-	$6 \times P_e$	1.1	1.1	-	$6 \times P_e$	10	6	$\geq 0.05s$

- Notes:**
- $T_{0.95} = 6P_e$ formula is a rule of thumb, where P_e is in Watts* and $T_{0.95}$ in Milliseconds;
 - When the total operations of the circuit breaker is less than 6,050, the number of power-on operations of the auxiliary contacts can be the same as the circuit breaker's total operations;
 - The operating frequency and power-on duration are allowed to be consistent with the main circuit of the circuit breaker;
 - The power-on duration is at least $T_{0.95}$ if $T_{0.95}$ is greater than 0.05s.

Auxiliary cotnacts / alarm contacts

Accessory name	Frame	Catalogue No.	Article No.	Note
Auxiliary cotnacts / alarm contacts	BZMX2E	BZMX2/Z R	CCX09014	BZMX2E Auxiliary contact/alarm contact only supports right mounting, 80cm long
		BZMX2/ZZ R	CCX09016	
		BZMX2/ZA R-S08	CCX09133	
		BZMX2/Z+ZA R-S08	CCX09134	
BZMX3E	BZMX3E	BZMX3/Z	CCX09021	BZMX3E Auxiliary contact/alarm contact supports left and right mounting, 80cm long
		BZMX3/ZA	CCX09022	
		BZMX3/Z+ZA	CCX09023	

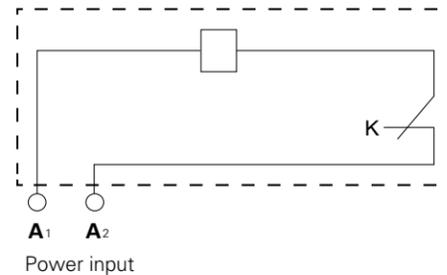


BZMX/SHT shunt release

Shunt releases (BZMX/SHT)

Voltage specification	AC50Hz: 230V 400V DC: 24V 220V 110V
Action characteristics	The shunt release enables circuit breakers to trip when at 70% to 110% of the rated control voltage

Wiring diagram (within the dotted box are the internal accessories of the circuit breaker)

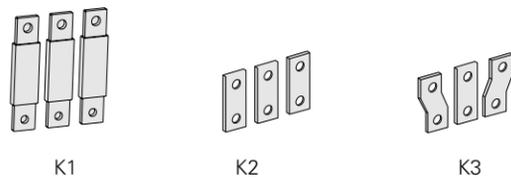


K is the microswitch connected in series with the coil inside the shunt release, which is a normally closed contact. The contact opens automatically upon the opening of the circuit breaker, and closes when it is closed.

Shunt releases

Accessory name	Frame	Catalogue No.	Article No.	Description	Note
Shunt release	BZMX2E	BZMX2/SHT 400V	CCX9039	Length 80cm	BZMX2E and BZMX3E series are universal to standard type products. Left mounting for all devices
		BZMX2/SHT 230V	CCX9040	Length 80cm	
		BZMX2/SHT DC110V	CCX9041	Length 80cm	
	BZMX3E	BZMX3/SHT 400V	CCX9043	Length 80cm	
		BZMX3/SHT 230V	CCX9044	Length 80cm	
		BZMX3/SHT DC110V	CCX9045	Length 80cm	
		BZMX3/SHT DC24V	CCX9046	Length 80cm	

Extension wiring board (BZMX/K)

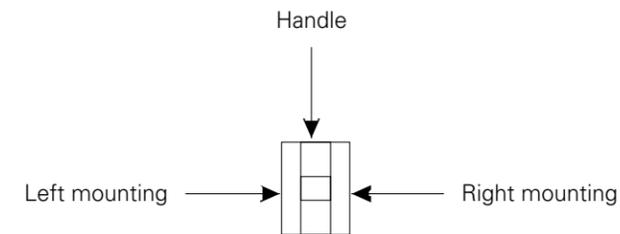


- Increase the distance between circuit breaker terminals according to incoming devices, to improve inter-phase insulation

Extension wiring board BZMX/K

Accessory name	Frame	Catalogue No.	Article No.	Description	Note
Extension wiring board	BZMX2E	BZMX2-1/K1 250A	CCX09122	Straight terminal extension board, suitable for 135 & 246 side	Three terminals are included for each set.
		BZMX2-1/K2 250A	CCX09123	Standard straight terminal extension board, only for 246 side	
		BZMX2-1/K3 250A	CCX09124	Inter-phase extension board, only for 246 side	
	BZMX3E	BZMX3-1/K1 400A	CCX09127	Straight terminal extension board, suitable for 135 & 246 side	
		BZMX3-1/K2 400A	CCX09125	Standard straight terminal extension board, only for 246 side	
		BZMX3-1/K3 400A	CCX09126	Inter-phase extension board, only for 246 side	

Electrical accessory combination mode



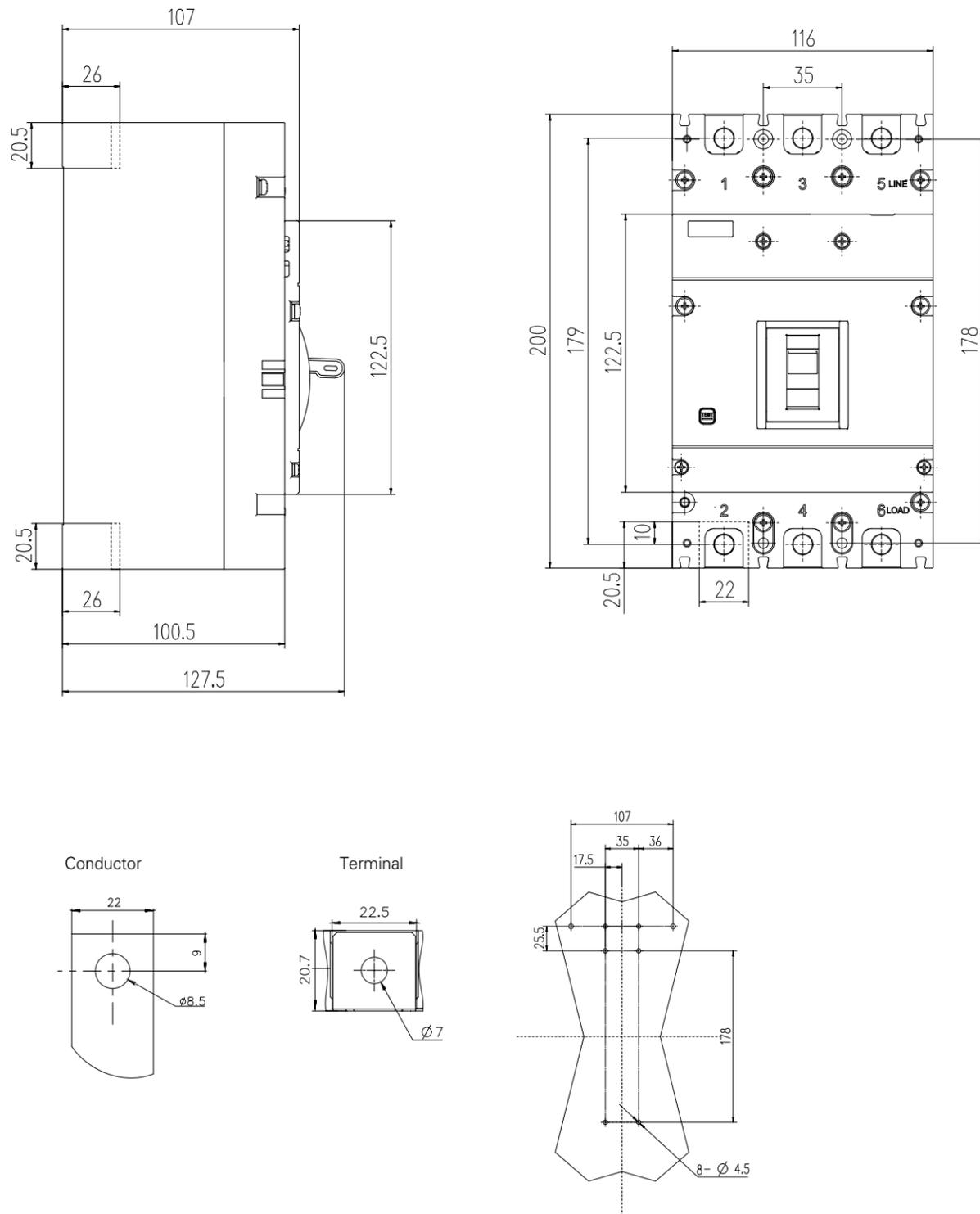
Legend

- ◇ Single auxiliary contact
- ◆ Double auxiliary contact
- Alarm contact
- Shunt release
- ▲ Under-voltage release
- ★ Single auxiliary alarm contact

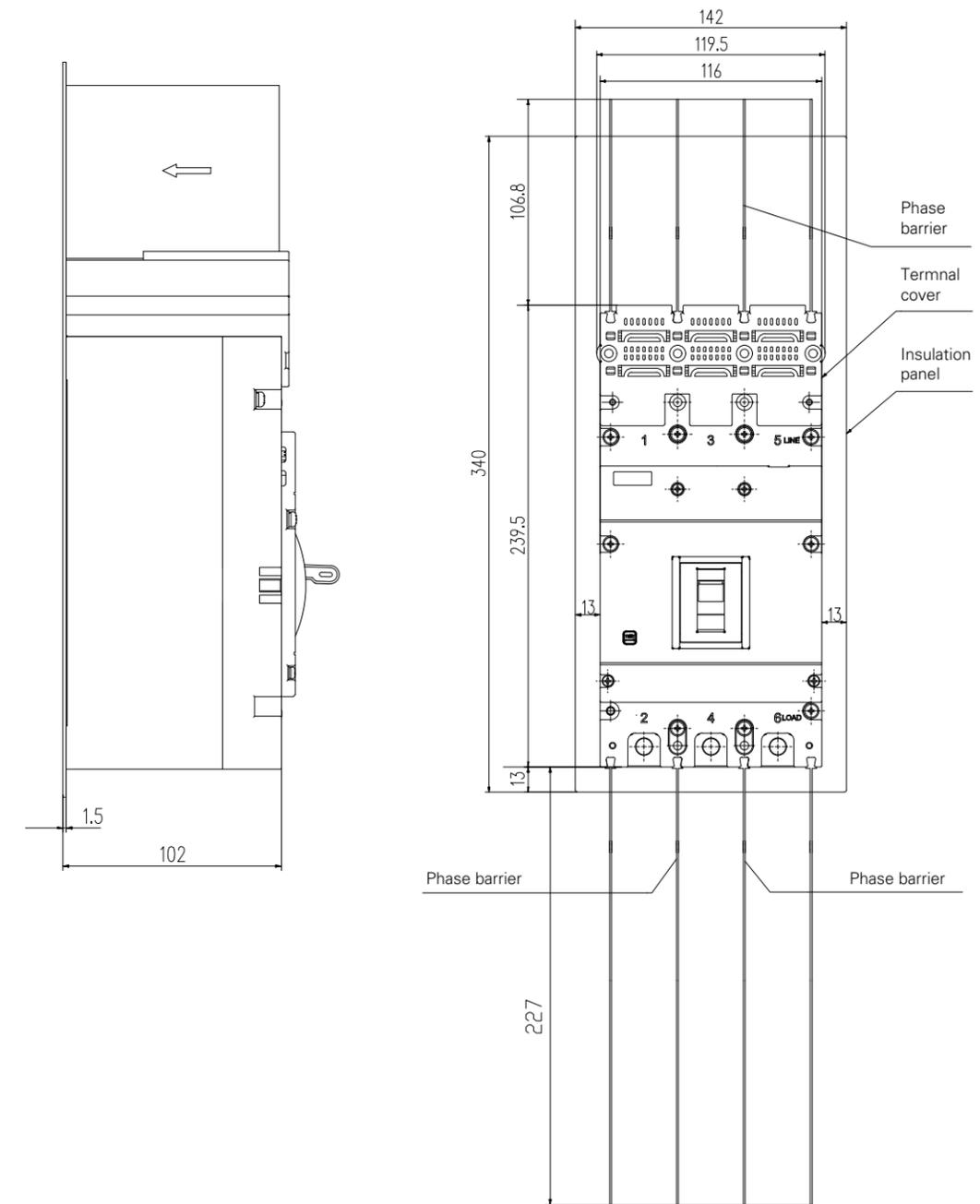
Tripping mode accessory code comparison table

Accessory code	Accessory name	BZMX2E-AX**-S08	BZMX3E-AX**-S08
		3P	3P
00	N/A	/	/
10	Shunt release	■	■
20	Single auxiliary contact	◇	◇
30	Double auxiliary contact	◆	◆
40	Under-voltage release	/	/
50	Alarm ccontact	●	●
60	Single auxiliary alarm contact	★	★
12	Shunt release + single auxiliary contact	■◇	■◇
13	Shunt release + double auxiliary contact	■◆	■◆
14	Shunt release + under-voltage release	/	/
15	Shunt release + alarm ccontact	■●	■●
16	Shunt release + single auxiliary alarm contact	■★	■★
17	Shunt release + single auxiliary contact + under-voltage release	/	/
18	Shunt release + single auxiliary alarm contact + single auxiliary contact	/	★◇
19	Shunt release + alarm contact + under-voltage release	/	/
21	Shunt release + single auxiliary alarm contact + under-voltage release	/	/
22	Two sets of single auxiliary contacts	◇◇	◇◇
32	Double auxiliary contact + single auxiliary contact	◆◇	◆◇
33	Two sets of double auxiliary contacts	◆◆	◆◆
35	Double auxiliary contact + alarm contact	◆●	◆●
36	Double auxiliary contact + single auxiliary alarm contact	◆★	◆★
42	Under-voltage release + single auxiliary contact	/	/
43	Under-voltage release + double auxiliary contact	/	/
23	Under-voltage release + three sets of auxiliary contacts	/	/
24	Under-voltage release + + single auxiliary contact + single auxiliary alarm contact	/	/
45	Under-voltage release + alarm contact	/	/
46	Under-voltage release + single auxiliary alarm contact	/	/

BZMX2E's basic device

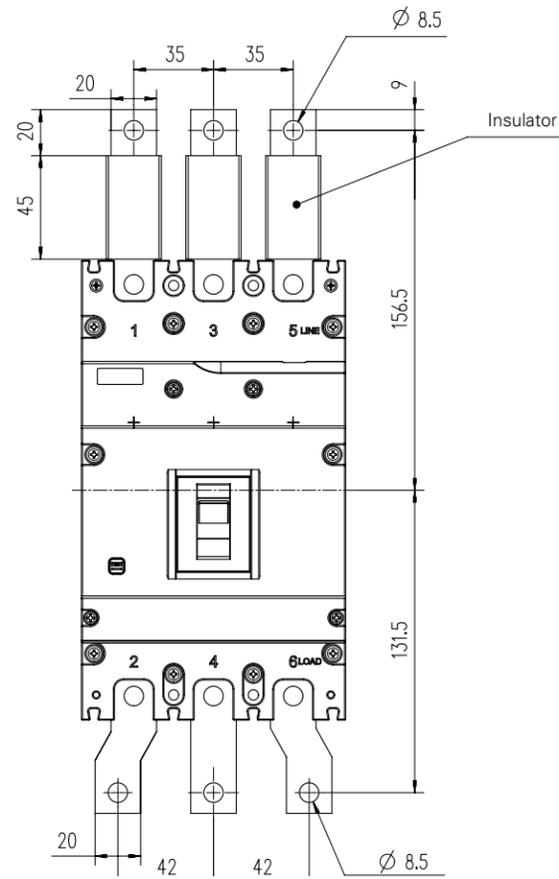


BZMX2E devices equipped with insulating bottom panel, phase barrier and terminal cover

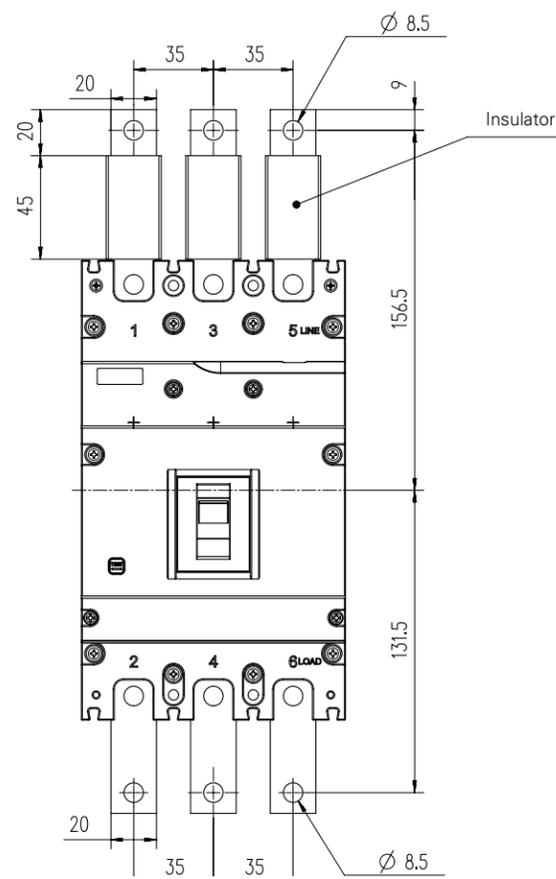


BZMX2E's optional extension board dimensions

Straight terminal extension board on the 1/3/5 side and pole-spacing extension board on the 2/4/6 side

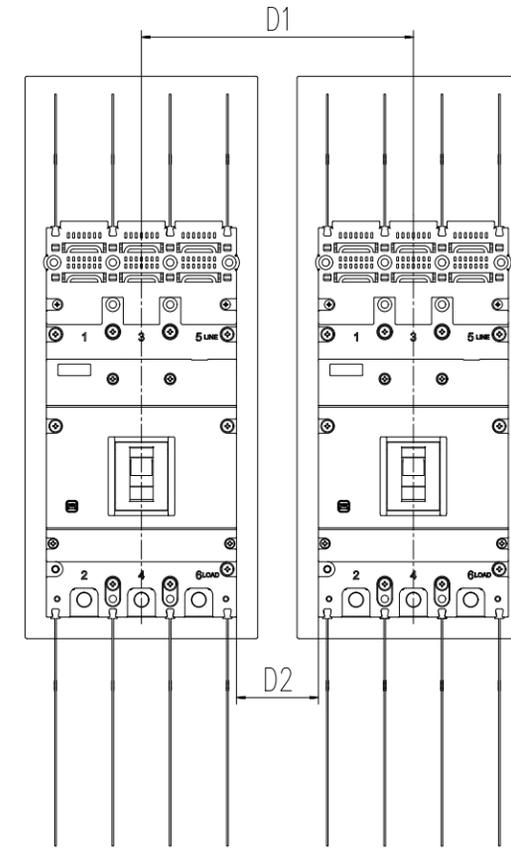


Straight terminal extension boards on the 1/3/5 and 2/4/6 sides

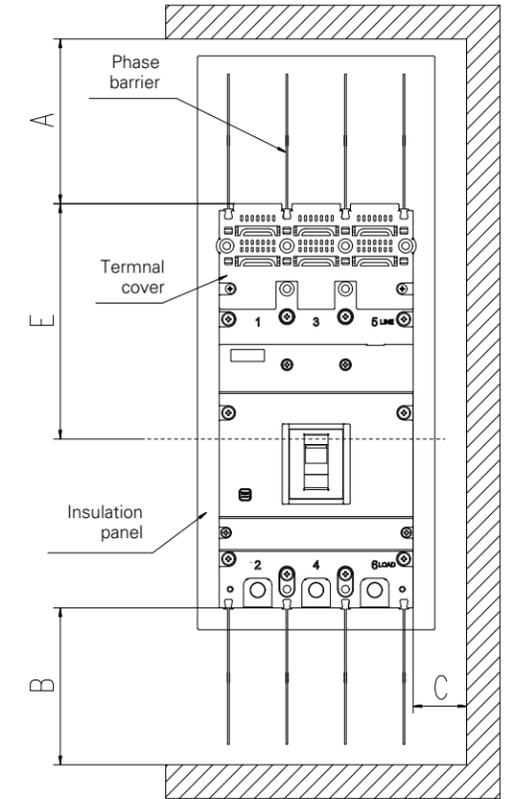


BZMX2E mounting diagrams

The minimum clearance between adjacent circuit breakers

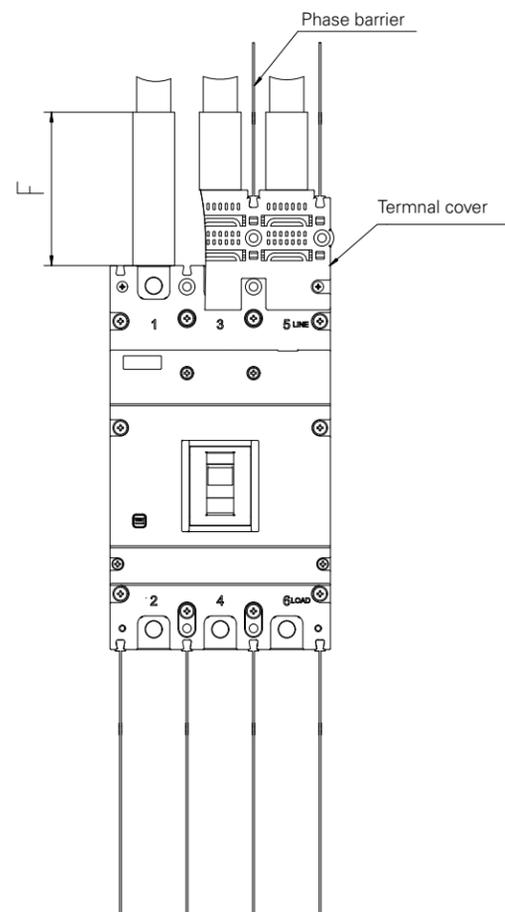


The minimum clearance between circuit breaker and top, bottom and side panels

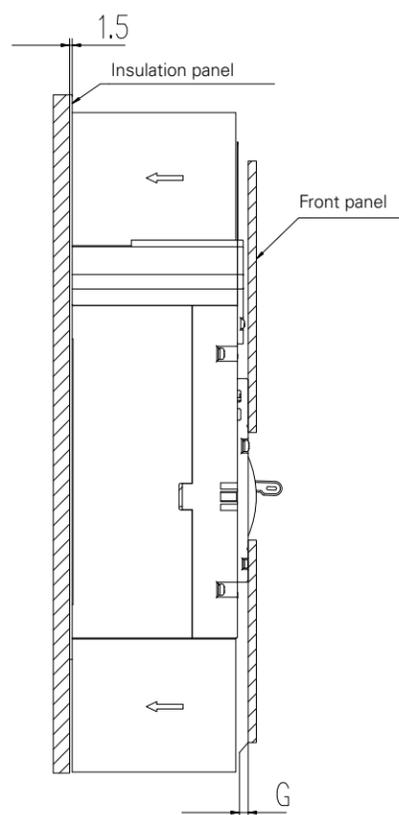


BZMX2E mounting diagrams

The minimum insulation length of the wiring board for front panel wiring



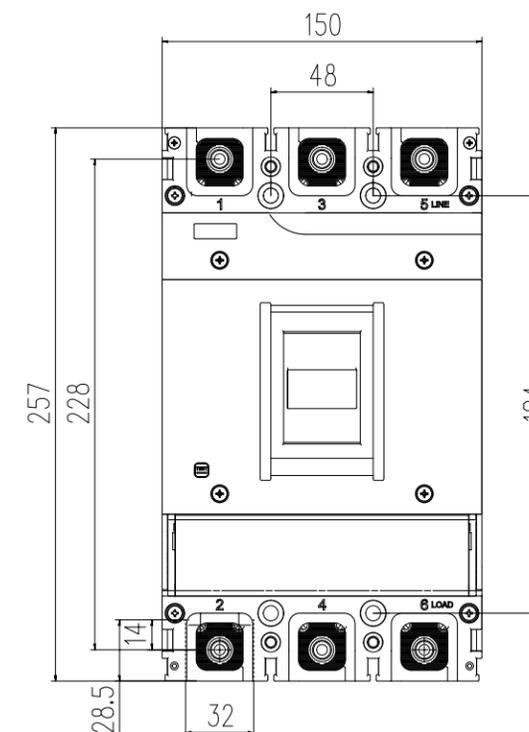
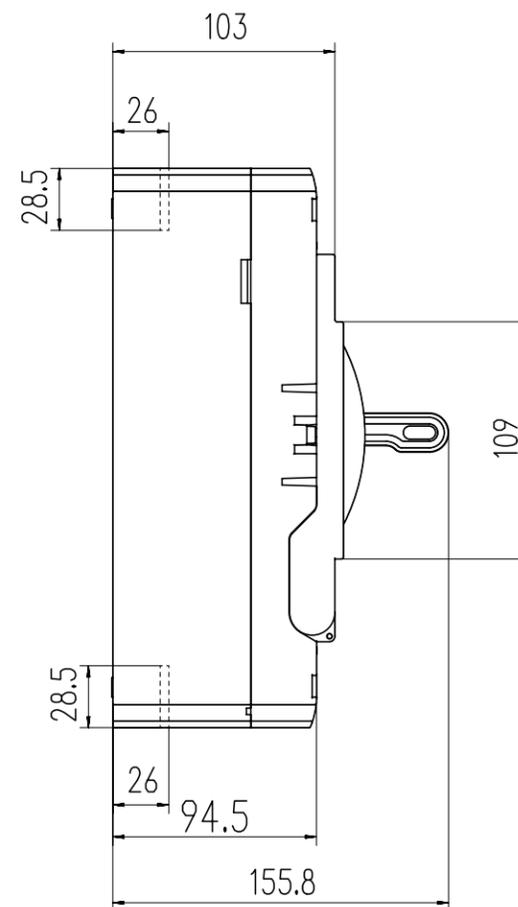
The minimum clearance between circuit breaker and front panel



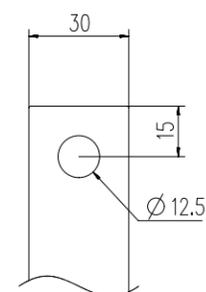
Mounting dimension table

Catalogue No.	Dimensions (mm)							G Insulation panel	G Metal panel
	A	B	C	D1	D2	E	F		
BZMX2E	150	228	30	146	30	139.5	350	0	30

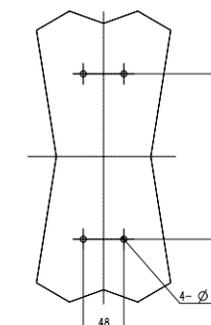
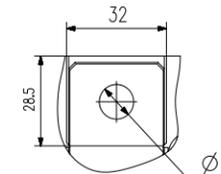
BZMX3E's basic device



Conductor

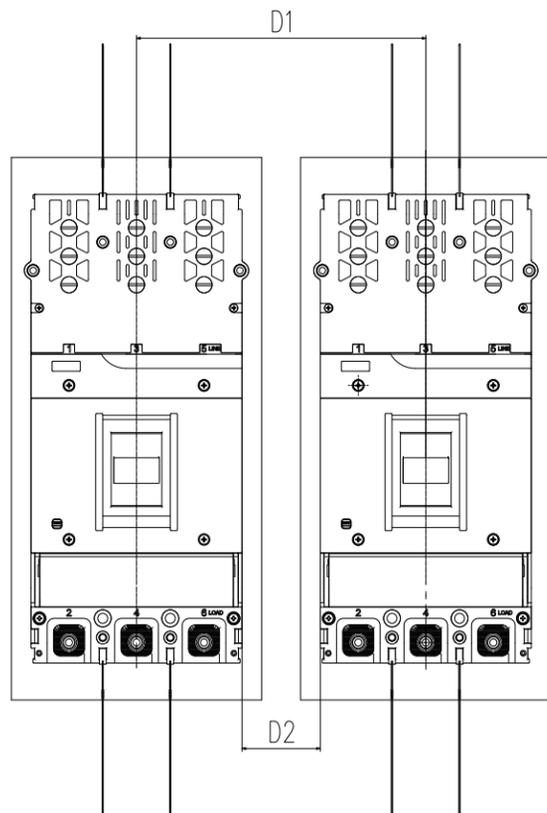


Terminal

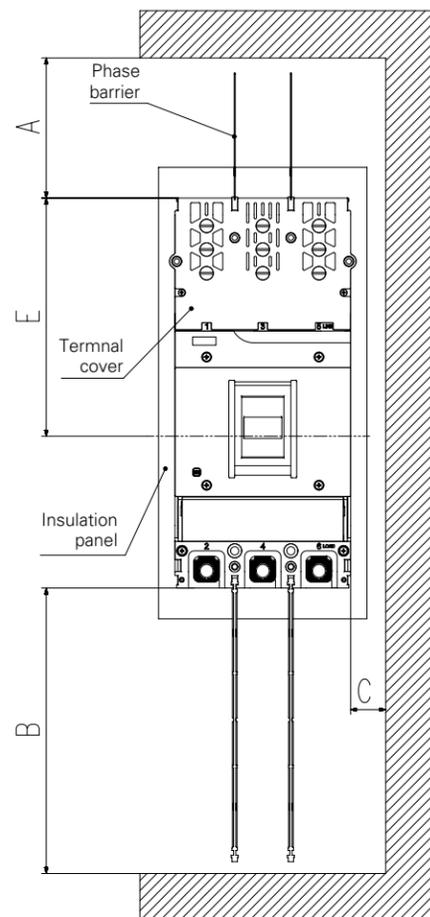


BZMX2E mounting diagrams

The minimum clearance between adjacent circuit breakers

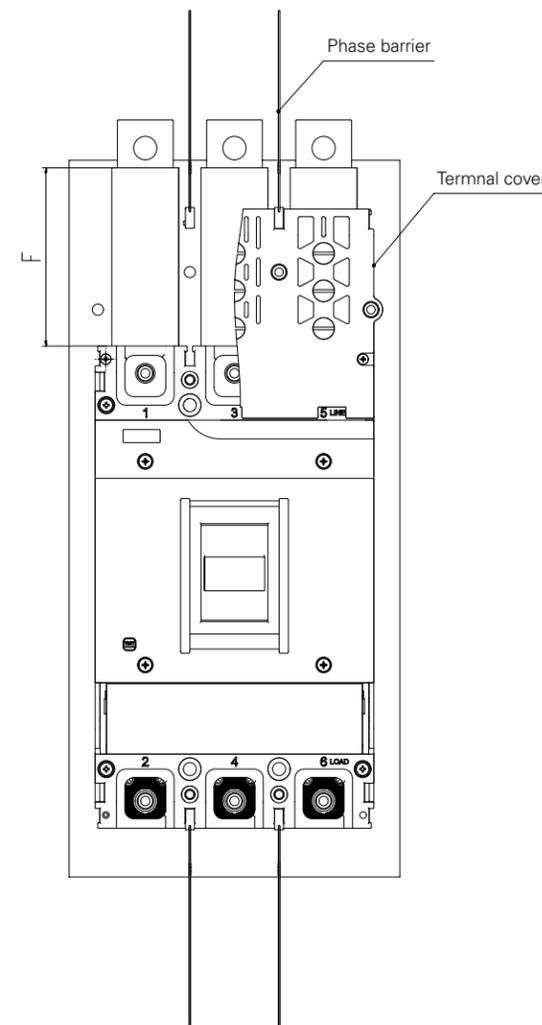


The minimum clearance between circuit breaker and top, bottom and side panels

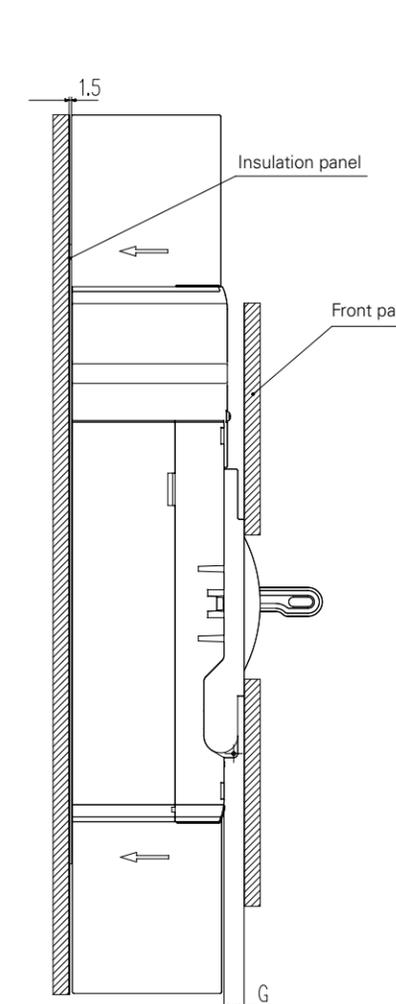


BZMX3E mounting diagrams

The minimum insulation length of the wiring board for front panel wiring



The minimum clearance between circuit breaker and front panel



Mounting dimension table

Catalogue No.	Dimensions (mm)		C	D1	D2	E	F	G	G
	A	B							
BZMX3E	150	235	30	180	30	201.5	400	0	30

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