

# BZM Series Circuit Breakers





# Energizing a world that demands more.

## We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

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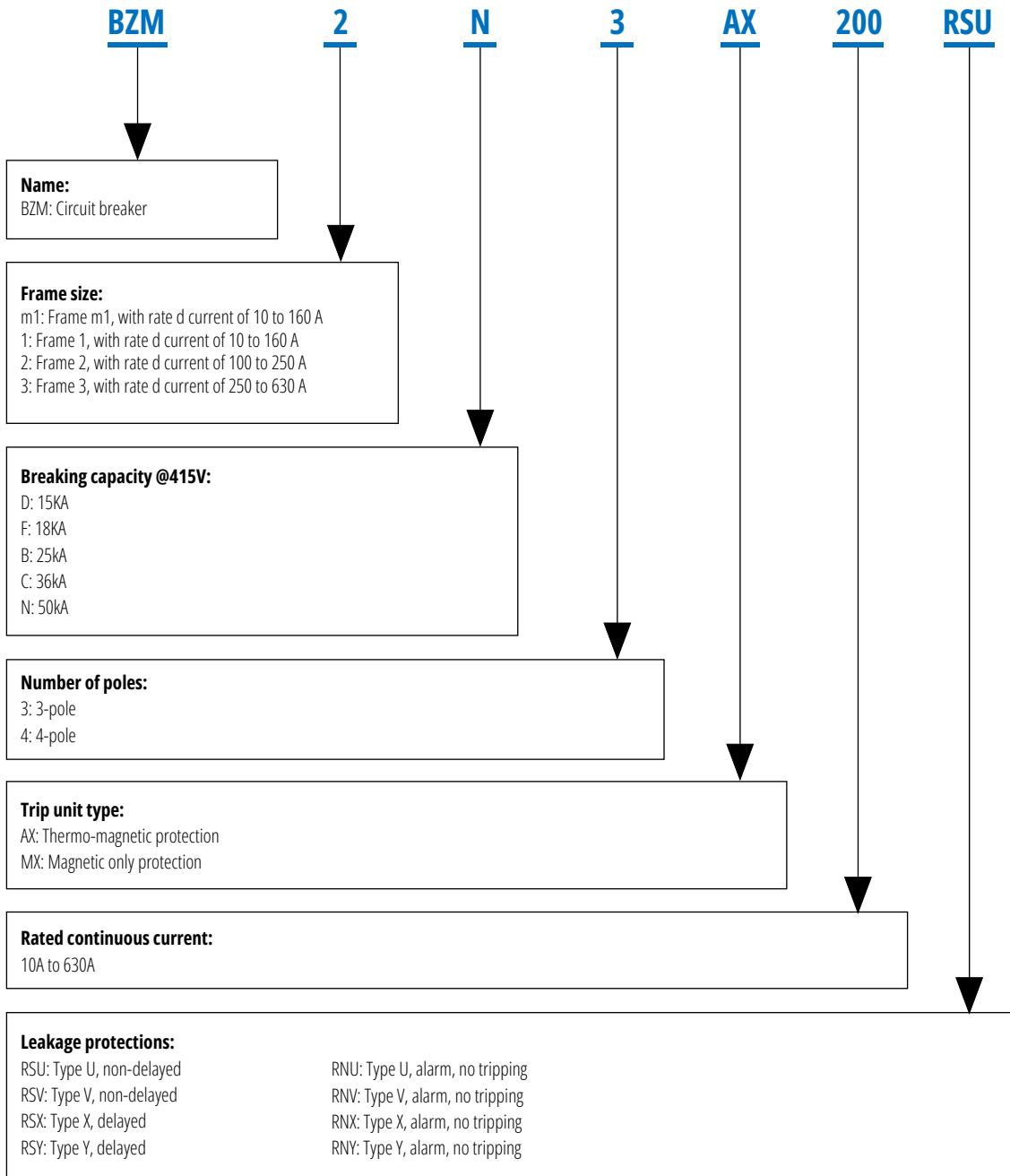
**BZM Series Circuit Breakers**

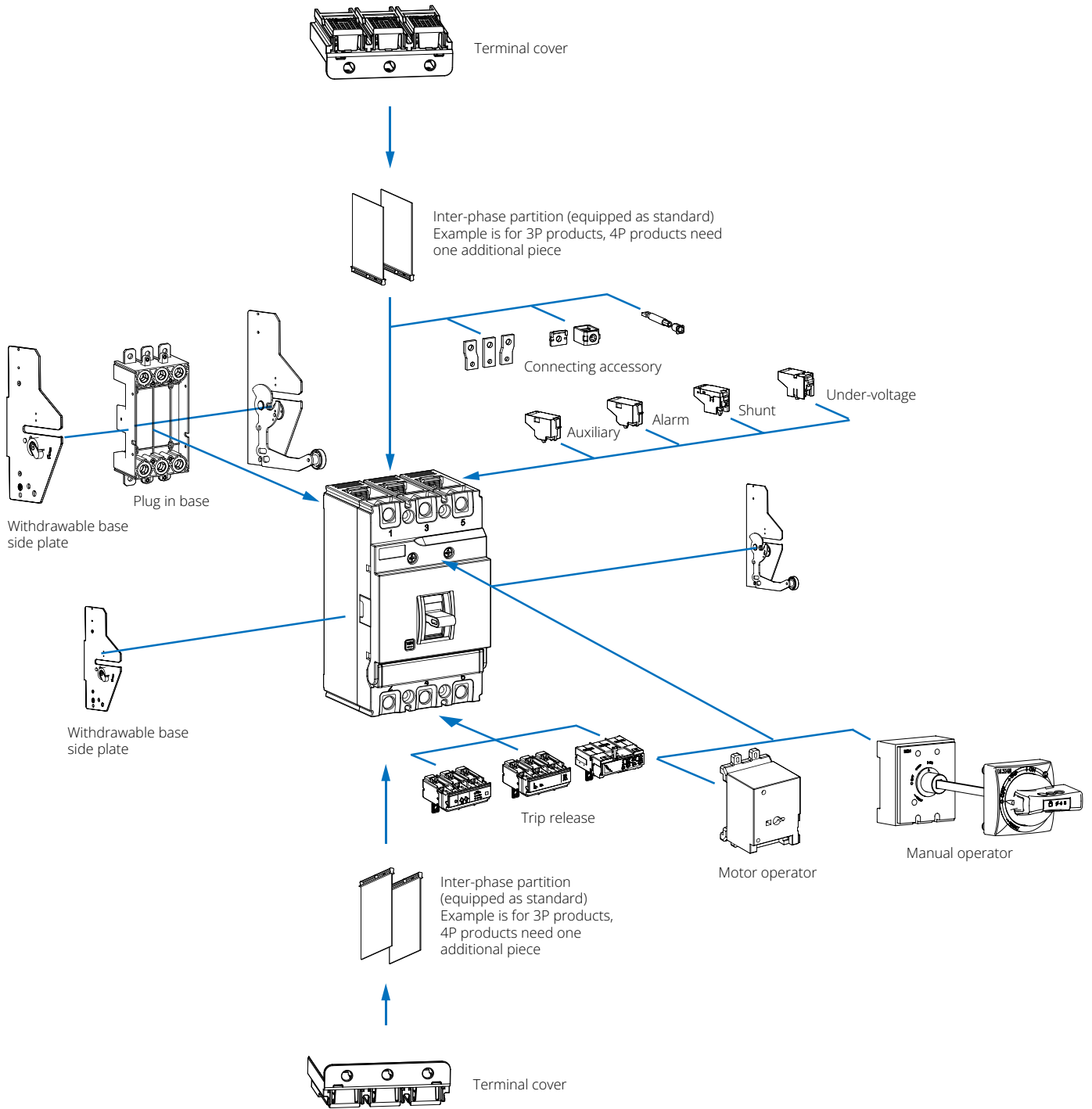


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# 1.1

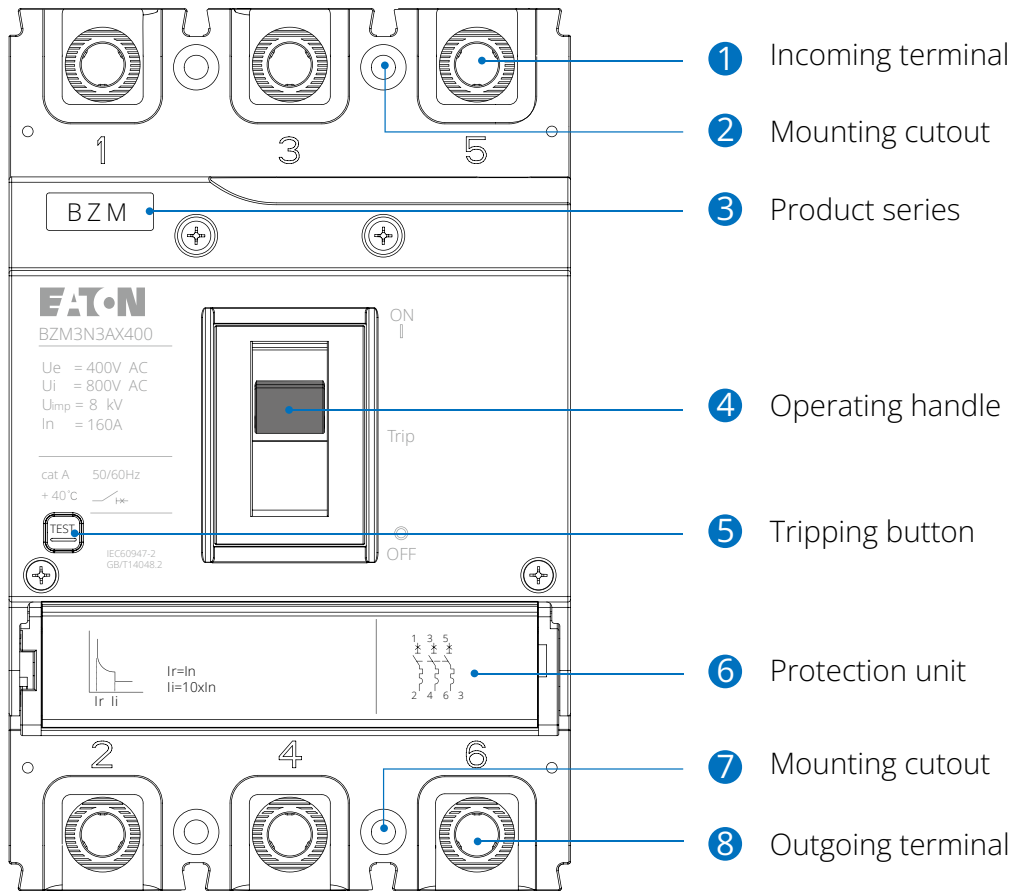
## Molded Case Circuit Breakers BZM Model Description





# 1.2

## Molded Case Circuit Breakers BZM System Overview

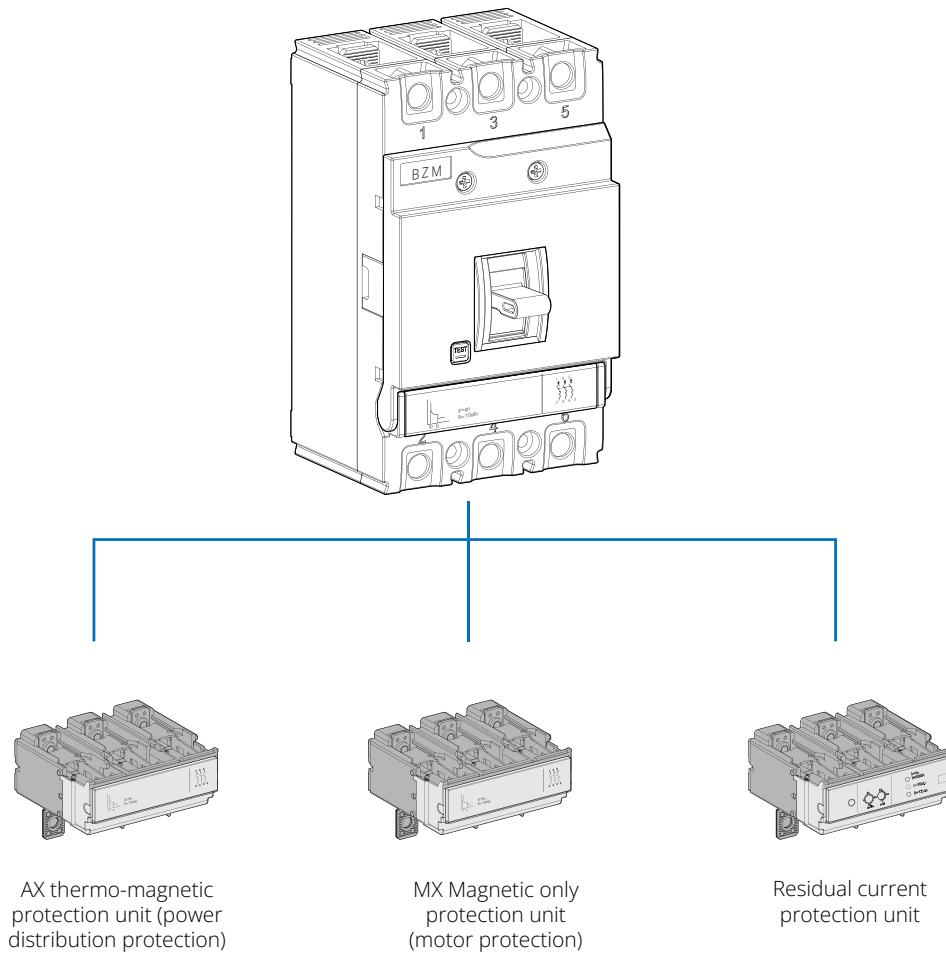


## Protection Unit Description



Thanks for modular design concept, the BZM product series offer a variety of protection units such as thermo-magnetic, Magnetic only and residual current.

Different protection units can be selected to protection types.

- Protect distribution cables for transformer power;
- Suitable to protect motors from over-load and short circuit;
- Lower threshold, suitable to protect generators or long cables;





## BZM Series Thermo-Magnetic MCBs (AX: Thermo-Magnetic and MX: Magnetic only)

		BZMm1	BZM1
			
		<b>3P/4P</b>	<b>3P/4P</b>
Control	Manual Operator	■	■
	Motor Operator	■	■
Wiring	Front panel wiring	■	■
	Rear panel wiring	■	■
	Plug in	■	■
	Withdrawable	—	—
<b>Electrical performance complies with IEC 60947-2 and GB/T 14048.2</b>			
Rated current of trip unit In (A)		16 20 25 32 40 50 63 80 100 125 140 160	16 20 25 32 40 50 63 80 100 125 140 160
Rated insulation voltage (V)	Ui	AC690	AC800
Rated impulse withstand voltage (kV)	Uimp	8	8
Rated operating voltage (V)	Ue	AC400/AC415	AC400/AC415/AC690
Circuit breaker type		D F B	C N
Rated ultimate short circuit breaking capacity (kA)	Icu AC 50/60 Hz	400/415V 690V	15 18 25 — — —
	Ics AC 50/60 Hz	400/415V 690V	36 50 — 10
Rated ultimate short circuit making capacity (kA)	Icm AC 50/60 Hz	400/415V 690V	31.5 37.8 52.5 — — —
			75.6 105 — 21
Utilization category		A	A
Operating cycles	Mechanical	20000	20000
	Electrical	AC400V/AC415V AC690V	8000 —
No maintenance		—	5000
Protection units			
Protection units		Thermo - magnetic	Thermo - magnetic
Over-load protection	Long delay	I <sub>r</sub> (I <sub>n</sub> ×...)	■
Short circuit protection	Short delay	I <sub>sd</sub> (I <sub>r</sub> ×...)	—
	Instantaneous	I <sub>i</sub> (I <sub>n</sub> ×...)	■
Ground protection		I <sub>g</sub> (I <sub>n</sub> ×...)	—
<b>Indication and control accessories</b>			
Alarm switch		■	■
Auxiliary switch		■	■
Shunt release		■	■
Under-voltage release		■	■
<b>Mounting</b>			
Accessories	Wiring terminal	■	■
	Inter-phase partition	■	■
Storage temperature		-40°C ~ +70°C	-40°C ~ +70°C
Operating temperature		-40°C ~ +70°C	-40°C ~ +70°C

**Notes:**

- When selecting the thermo-magnetic molded case products, the plug-in wirings of the BZM1 frame featuring plug in wiring as its wiring method and rated current (In) of 160A must be derated to 140A, that is, the BZM2 frame must be selected for circuit breakers with its rated current (In) higher than 140A but equal to and smaller than 250A.
- When selecting the thermo-magnetic molded case products, the plug-in wirings of the BZM3 frame featuring plug in wiring as its wiring method and rated current (In) of 630A must be derated to 570A.
- When selecting the thermo-magnetic molded case products, the withdrawable wirings of the BZM3 frame featuring withdrawable wiring as its wiring method and rated current (In) of 630A must be derated to 570A.
- The circuit breaker can operate at ambient temperature from -40°C to +70°C, and the average value for 24 hours does not exceed 35°C. When the ambient temperature is from +40°C to +70°C, derating must be used by customers; refer to the Temperature Derating Coefficient Table for more details.






BZM2			BZM3		
					
3P/4P			3P/4P		
■			■		
■			■		
■			■		
■			■		
■			■		
—			■		
100 125 140 160 180 200 225 250			250 315 350 400 500 630		
AC800			AC800		
8			8		
AC400/AC415/AC690			AC400/AC415/AC690		
B	C	N	B	C	N
25	36	50	25	36	50
—	—	10	—	—	10
25	36	50	25	36	50
—	—	10	—	—	10
52.5	75.6	105	52.5	75.6	105
—	—	21	—	—	21
A			A		
20000			15000		
10000			8000		
3000			2000		
Thermo - magnetic			Thermo - magnetic		
■			■		
—			—		
■			■		
—			—		
■			■		
■			■		
■			■		
■			■		
■			■		
■			■		
-40°C ~ +70°C			-40°C ~ +70°C		
-40°C ~ +70°C			-40°C ~ +70°C		

# 1.3

## Molded Case Circuit Breakers BZM Technical Data

### BZM Series Residual Current MCBs

		BZM1	BZM2	BZM3	
					
<b>No. of poles</b>		<b>3P/4P</b>	<b>3P/4P</b>	<b>3P/4P</b>	
Control	Manual Operator	■	■	■	
	Motor Operator	■	■	■	
Wiring	Front panel wiring	■	■	■	
	Rear panel wiring	■	■	■	
	Plug in	■	■	■	
	Withdrawable	—	—	■	
<b>Electrical performance complies with IEC 60947-2 and GB/T 14048.2</b>					
Rated current of trip unit I <sub>n</sub> (A)		10 16 20 25 32 40 50 63 80 100 125 140 160	100 125 140 160 180 200 225 250	250 315 350 400 500 630	
Rated insulation voltage (V)	U <sub>i</sub>	AC1000	AC1000	AC1000	
Rated impulse withstand voltage (kV)	U <sub>imp</sub>	8	8	8	
Rated operating voltage (V)	U <sub>e</sub>	AC400	AC400	AC400	
Circuit breaker type		N	N	N	
Rated ultimate short circuit breaking capacity (kA)	I <sub>cu</sub> AC 50/60 Hz	400V 50	50	50	
Rated operational short circuit breaking capacity (kA)	I <sub>cs</sub> AC 50/60 Hz	400V 50	50	50	
Rated ultimate short circuit making capacity (kA)	I <sub>cm</sub> AC 50/60 Hz	400V 105	105	105	
Utilization category		A	A	A	
Operating cycles	No maintenance				
		Mechanical	25000	25000	10000
		Electrical	AC400V 10000	10000	8000
Rated residual action current I <sub>Δn</sub> (A)	Type AC residual current protection	RSU	0.03/0.05/0.1/0.3	0.03/0.05/0.1/0.3	—
		RNU/RSX/RNX	0.05/0.1/0.3	0.05/0.1/0.3	—
		RSV/RNV/RSY/RNY	0.1/0.3/0.5/1.0	0.1/0.3/0.5/1.0	0.1/0.3/0.5/1.0
Rated residual non acting current I <sub>Δno</sub>		1/2 I <sub>Δn</sub>	1/2 I <sub>Δn</sub>	1/2 I <sub>Δn</sub>	
Rated residual short circuit making (breaking) capacity I <sub>Δm</sub>		1/4 I <sub>cu</sub>	1/4 I <sub>cu</sub>	1/4 I <sub>cu</sub>	
<b>Protection units</b>					
Protection units		Thermo - magnetic	Thermo - magnetic	Thermo - magnetic	
Over-load protection	Long delay	I <sub>r</sub> (I <sub>n</sub> ×... )	■	■	
	Short delay	I <sub>sd</sub> (I <sub>n</sub> ×... )	—	—	
Short circuit protection	Instantaneous	I <sub>i</sub> (I <sub>n</sub> ×... )	■	■	
		I <sub>g</sub> (I <sub>n</sub> ×... )	—	—	
Ground protection			■	■	
Ground protection			■	■	
<b>Indication and control accessories</b>					
Alarm switch		■	■	■	
Auxiliary switch		■	■	■	
Shunt release		■	■	■	
Under-voltage release		■	■	■	
<b>Mounting</b>					
Accessories	Wiring terminal	■	■	■	
	Inter-phase partition	■	■	■	
Storage temperature		-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	
Operating temperature		-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	

#### Notes:

- When selecting the thermo-magnetic molded case products, the plug in wirings of the BZM1 frame featuring plug in wiring as its wiring method and rated current (I<sub>n</sub>) of 160A must be derated to 140A, that is, the BZM2 frame must be selected for circuit breakers with its rated current (I<sub>n</sub>) higher than 140A but equal to and smaller than 250A,
  - When selecting the thermo-magnetic molded case products, the plug in wirings of the BZM3 frame featuring plug in wiring as its wiring method and rated current (I<sub>n</sub>) of 630A must be derated to 570A;
  - When selecting the thermo-magnetic molded case products, the withdrawable wirings of the BZM3 frame featuring withdrawable wiring as its wiring method and rated current (I<sub>n</sub>) of 630A must be derated to 570A;
  - The circuit breaker can operate at ambient temperature from -40°C to +70°C, and the average value for 24 hours does not exceed 35°C.
- When the ambient temperature is from +40°C to +70°C, derating must be used by customers; refer to the Temperature Derating Coefficient Table for more details.

### Residual Current Protection Units

Protection type	Frame	Trip unit type	Current I $\Delta$ n (A)	Remark
Residual current protection	BZM1 BZM2	RSU	0.03/0.05/0.1/0.3	Non-delayed
		RSV	0.1/0.3/0.5/1.0	Non-delayed
		RSX	0.05/0.1/0.3	Delayed
		RSY	0.1/0.3/0.5/1.0	Delayed
		RNU	0.05/0.1/0.3	Alarm, no tripping
		RNV	0.1/0.3/0.5/1.0	Alarm, no tripping
		RNX	0.05/0.1/0.3	Alarm, no tripping
		RNY	0.1/0.3/0.5/1.0	Alarm, no tripping
	BZM3	RSV	0.1/0.3/0.5/1.0	Non-delayed
		RSY	0.1/0.3/0.5/1.0	Delayed
		RNV	0.1/0.3/0.5/1.0	Alarm, no tripping
		RNY	0.1/0.3/0.5/1.0	Alarm, no tripping

Residual current		I $\Delta$ n	2 I $\Delta$ n	5 I $\Delta$ n	10 I $\Delta$ n
Non-delayed	Max. breaking time	0.08	0.08	0.04	0.04
	Ultimate non-driving time	0.1/0.5/1	0.1/0.5/1	0.1/0.5/1	0.1/0.5/1
Delayed	Max. breaking time	0.5/1.15/2.15	0.35/1/2	0.25/0.9/1.9	0.25/0.9/1.9
	Ultimate non-driving time	0.1/0.5/1	0.1/0.5/1	0.1/0.5/1	0.1/0.5/1

**Notes:**

1. According to GB14048.2 standard, baseline acting current is 5 I $\Delta$ n for non-delayed types, and 2 I $\Delta$ n for delayed types;
2. All 0.03A products are non-delayed type (according to national standards).

### Residual Current Factory Setting Table

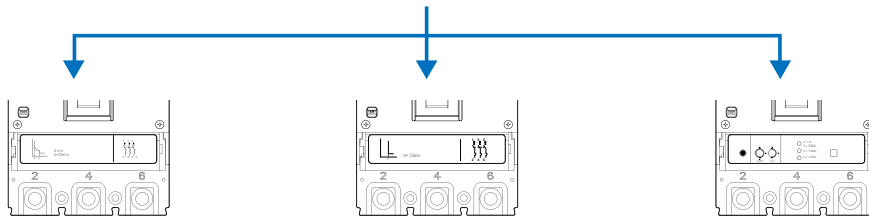
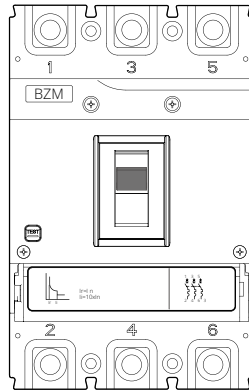
Residual current	Frame level	Trip unit type	Current setting I $\Delta$ n (A)	Ultimate non-driving $\Delta$ t (S)
Residual current protection	BZM1 BZM2 BZM3	All	0.1	1

### Residual Current Labels

The labels are arranged in two columns and four rows. Each label includes a dial with a pointer, a set of radio buttons for current settings (I $\Delta$ n), and a checkbox for alarm status.

- RSU: Type U, non-delayed**: Dial shows 0.03, 0.05, 0.1, 0.3. Radio buttons for I $\Delta$ n = In, 500A, 10xIn, 12xIn. Alarm checkbox is present.
- RSV: Type V, non-delayed**: Dial shows 0.1, 0.3, 0.5, 1.0. Radio buttons for I $\Delta$ n = In, 500A, 10xIn, 12xIn. Alarm checkbox is present.
- RSX: Type X, delayed**: Dial shows 0.05, 0.1, 0.3. Radio buttons for I $\Delta$ n = In, 500A, 10xIn, 12xIn. Alarm checkbox is present.
- RSY: Type Y, delayed**: Dial shows 0.1, 0.3, 0.5, 1.0. Radio buttons for I $\Delta$ n = In, 500A, 10xIn, 12xIn. Alarm checkbox is present.
- RNU: Type U, alarm, no tripping**: Dial shows 0.05, 0.1, 0.3. Radio buttons for I $\Delta$ n = In, 500A, 10xIn, 12xIn. Alarm checkbox is present.
- RNV: Type V, alarm, no tripping**: Dial shows 0.1, 0.3, 0.5, 1.0. Radio buttons for I $\Delta$ n = In, 500A, 10xIn, 12xIn. Alarm checkbox is present.
- RNX: Type X, alarm, no tripping**: Dial shows 0.05, 0.1, 0.3. Radio buttons for I $\Delta$ n = In, 500A, 10xIn, 12xIn. Alarm checkbox is present.
- RNY: Type Y, alarm, no tripping**: Dial shows 0.1, 0.3, 0.5, 1.0. Radio buttons for I $\Delta$ n = In, 500A, 10xIn, 12xIn. Alarm checkbox is present.

### Protection Unit Overview



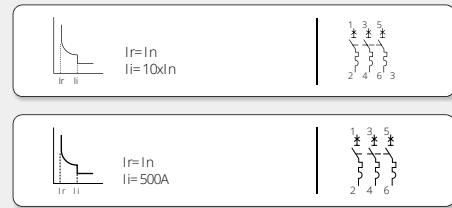
AX: Thermo-magnetic protection unit (power distribution protection)

MX: Magnetic only protection unit (motor protection)

R..: Residual current protection unit

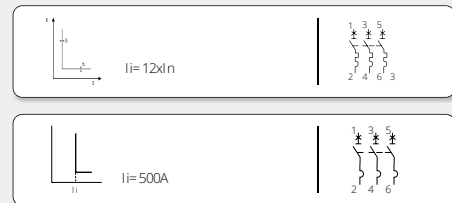
#### AX: Thermo-magnetic protection unit (power distribution protection)

Thermal fixing: 10-630A rated current  
Magnetic fixing: 500...6300A tripping current



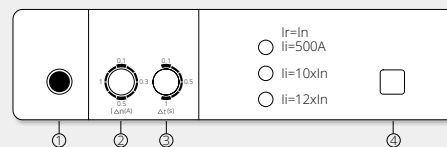
#### MX: Magnetic only protection unit (motor protection)

Magnetic fixing:  
In = 10A to 40A: 500A tripping current  
In = 50A to 630A: 600A...7560A tripping current

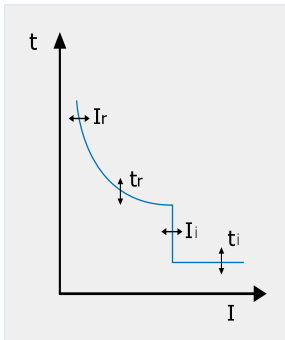


#### R..: Residual current protection unit

- ① PAL residual current alarm indicator
- ② Rated residual current setting
- ③ Rated residual current time setting
- ④ Residual current test button



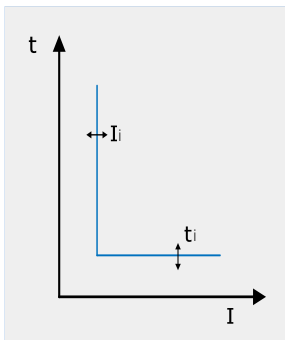
**BZM-AX/MX Protection units**



**AX: Protection Characteristics Data**

Rated current (A)	Inverse time acting characteristics at ambient temperature of +40°C		Instantaneous acting current (A)
	Non acting time at 1.05 In (cold state)	Acting time at 1.3 In (hot state)	
In ≤ 63	≥ 1h	< 1h	10 In ± 20%
63 < In ≤ 630	≥ 2h	< 2h	10 In ± 20%

\* Note: The instantaneous acting current is 500A±20% for BZM1 of 40A and below.



**MX: Protection Characteristics Data**

Rated current (A)	Inverse time acting characteristics at ambient temperature of +40°C		Instantaneous acting current (A)
	Non acting time	Acting time	
In ≤ 630	-	-	12 In ± 20%

\* Note: The instantaneous acting current is 500A±20% for BZM1 of 40A and below.

**Power Consumption**

Circuit breaker model	Rated current (A)	3-phase total power consumption (W)	
		Front and rear panel wiring	Plug in and rear panel wiring
BZMm1/BZM1	160	20	24
BZM2	250	35	40
BZM3	630	43	51

**Temperature Derating Coefficients**

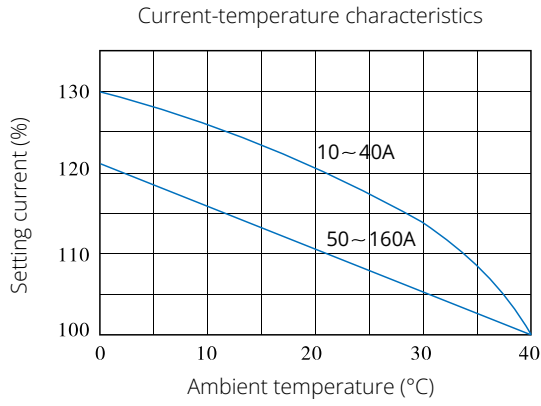
Circuit breaker model	+40°C	+45°C	+50°C	+55°C	+60°C	+65°C	+70°C
BZMm1/BZM1	1.0 In	1.0 In	1.0 In	1.0 In	0.98 In	0.95 In	0.92 In
BZM2	1.0 In	1.0 In	1.0 In	1.0 In	0.98 In	0.95 In	0.92 In
BZM3	1.0 In	1.0 In	1.0 In	1.0 In	0.97 In	0.94 In	0.91 In

**High Altitude Derating Coefficients**

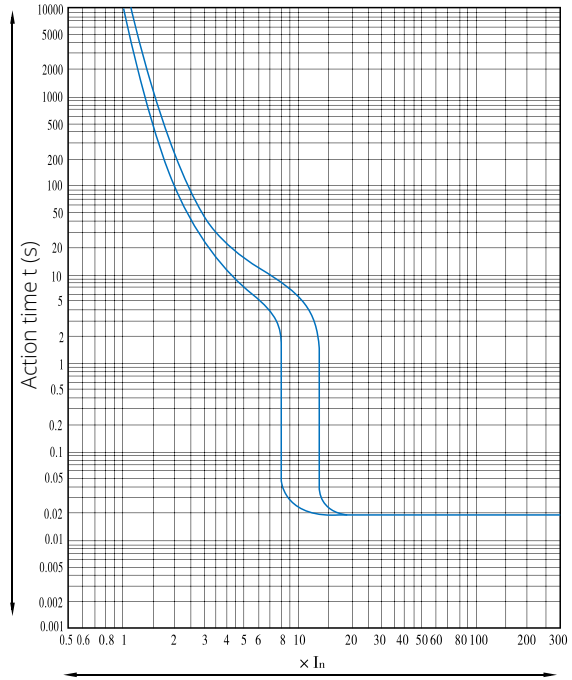
Items	Parameter						
Altitude (m)	2000	2500	3000	3500	4000	4500	5000
Power frequency withstand voltage (V)	3000	3000	2500	2400	2200	2100	2000
Insulation voltage (V)	1000	1000	900	850	800	720	700
Max. operating voltage (V)	690	690	620	580	540	500	460
Short circuit breaking capacity correction factor	1	1	0.9	0.82	0.78	0.75	0.7
Operating current correction factor	1	1	0.98	0.97	0.96	0.95	0.94

### BZM Protective Acting Characteristic Curves

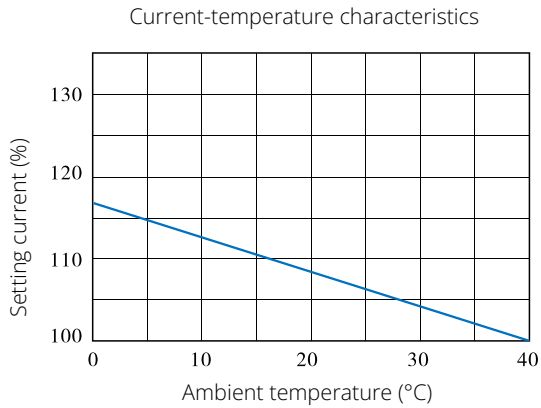
#### BZM1-AX (Thermo-Magnetic)



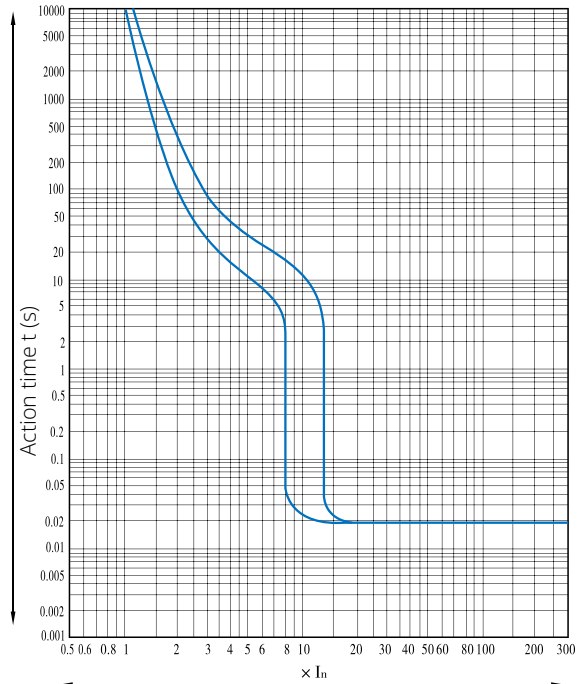
Current-temperature characteristic curve



#### BZM2-AX (Thermo-Magnetic)



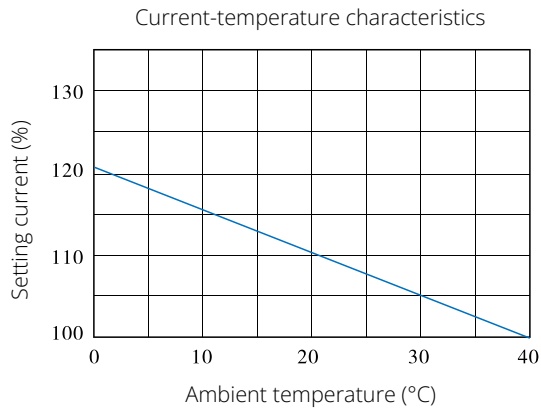
Current-temperature characteristic curve



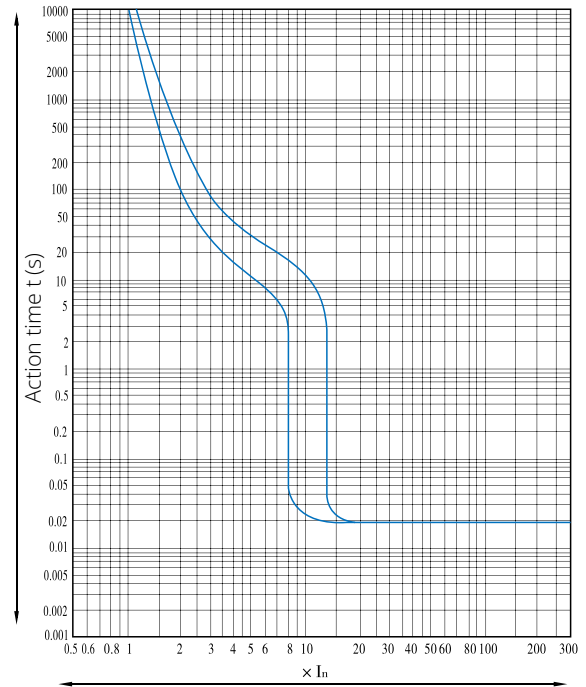
\* The BZM residual current products have the same tripping characteristic curve as the thermo-magnetic models.

**BZM Protective Acting Characteristic Curves**

**BZM3-AX (Thermo-Magnetic)**



Current-temperature characteristic curve



# 1.4

## Molded Case Circuit Breakers BZM Circuit Breaker's Basic Devices

### BZM Thermo-Magnetic Power Distribution Protection

Rated current =  
Rated continuous current  
 $I_n = I_u$   
A

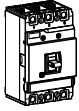
**Basic breaking capacity**  
**3P 15 kA**  
415 V 50/60 Hz  
**Part No.**  
Article No.

**Basic breaking capacity**  
**4P 15 kA**  
415 V 50/60 Hz  
**Part No.**  
Article No.

**Basic breaking capacity**  
**3P 18 kA**  
415 V 50/60 Hz  
**Part No.**  
Article No.

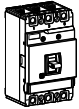
**Conventional breaking capacity**  
**4P 18 kA**  
415 V 50/60 Hz  
**Part No.**  
Article No.

BZM1



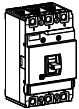
Rated current (A)	Basic breaking capacity 3P 15 kA Part No. Article No.	Basic breaking capacity 4P 15 kA Part No. Article No.	Basic breaking capacity 3P 18 kA Part No. Article No.	Conventional breaking capacity 4P 18 kA Part No. Article No.
10	<b>BZMm1D3AX010</b> CCB00001	<b>BZMm1D4AX010</b> CCB00014	<b>BZMm1F3AX010</b> CCB00053	<b>BZMm1F4AX010</b> CCB00066
16	<b>BZMm1D3AX016</b> CCB00002	<b>BZMm1D4AX016</b> CCB00015	<b>BZMm1F3AX016</b> CCB00054	<b>BZMm1F4AX016</b> CCB00067
20	<b>BZMm1D3AX020</b> CCB00003	<b>BZMm1D4AX020</b> CCB00016	<b>BZMm1F3AX020</b> CCB00055	<b>BZMm1F4AX020</b> CCB00068
25	<b>BZMm1D3AX025</b> CCB00004	<b>BZMm1D4AX025</b> CCB00017	<b>BZMm1F3AX025</b> CCB00056	<b>BZMm1F4AX025</b> CCB00069
32	<b>BZMm1D3AX032</b> CCB00005	<b>BZMm1D4AX032</b> CCB00018	<b>BZMm1F3AX032</b> CCB00057	<b>BZMm1F4AX032</b> CCB00070
40	<b>BZMm1D3AX040</b> CCB00006	<b>BZMm1D4AX040</b> CCB00019	<b>BZMm1F3AX040</b> CCB00058	<b>BZMm1F4AX040</b> CCB00071
50	<b>BZMm1D3AX050</b> CCB00007	<b>BZMm1D4AX050</b> CCB00020	<b>BZMm1F3AX050</b> CCB00059	<b>BZMm1F4AX050</b> CCB00072
63	<b>BZMm1D3AX063</b> CCB00008	<b>BZMm1D4AX063</b> CCB00021	<b>BZMm1F3AX063</b> CCB00060	<b>BZMm1F4AX063</b> CCB00073
80	<b>BZMm1D3AX080</b> CCB00009	<b>BZMm1D4AX080</b> CCB00022	<b>BZMm1F3AX080</b> CCB00061	<b>BZMm1F4AX080</b> CCB00074
100	<b>BZMm1D3AX100</b> CCB00010	<b>BZMm1D4AX100</b> CCB00023	<b>BZMm1F3AX100</b> CCB00062	<b>BZMm1F4AX100</b> CCB00075
125	<b>BZMm1D3AX125</b> CCB00011	<b>BZMm1D4AX125</b> CCB00024	<b>BZMm1F3AX125</b> CCB00063	<b>BZMm1F4AX125</b> CCB00076
140	<b>BZMm1D3AX140</b> CCB00012	<b>BZMm1D4AX140</b> CCB00025	<b>BZMm1F3AX140</b> CCB00064	<b>BZMm1F4AX140</b> CCB00077
160	<b>BZMm1D3AX160</b> CCB00013	<b>BZMm1D4AX160</b> CCB00026	<b>BZMm1F3AX160</b> CCB00065	<b>BZMm1F4AX160</b> CCB00078

BZM2



100
125
140
160
180
200
225
250

BZM3



250
315
350
400
500
630



Basic breaking capacity 3P 25 kA 415 V 50/60 Hz Part No. Article No.	Basic breaking capacity 4P 25 kA 415 V 50/60 Hz Part No. Article No.	Conventional breaking capacity 3P 36 kA 415 V 50/60 Hz Part No. Article No.	Conventional breaking capacity 4P 36 kA 415 V 50/60 Hz Part No. Article No.	Standard breaking capacity 3P 50 kA 415 V 50/60 Hz Part No. Article No.	Standard breaking capacity 4P 50 kA 415 V 50/60 Hz Part No. Article No.
<b>BZMm1B3AX010</b> CCB00105	<b>BZMm1B4AX010</b> CCB00118	<b>BZM1C3AX010</b> CCB10001	<b>BZM1C4AX010</b> CCB10014	<b>BZM1N3AX010</b> CCB10053	<b>BZM1N4AX010</b> CCB10066
<b>BZMm1B3AX016</b> CCB00106	<b>BZMm1B4AX016</b> CCB00119	<b>BZM1C3AX016</b> CCB10002	<b>BZM1C4AX016</b> CCB10015	<b>BZM1N3AX016</b> CCB10054	<b>BZM1N4AX016</b> CCB10067
<b>BZMm1B3AX020</b> CCB00107	<b>BZMm1B4AX020</b> CCB00120	<b>BZM1C3AX020</b> CCB10003	<b>BZM1C4AX020</b> CCB10016	<b>BZM1N3AX020</b> CCB10055	<b>BZM1N4AX020</b> CCB10068
<b>BZMm1B3AX025</b> CCB00108	<b>BZMm1B4AX025</b> CCB00121	<b>BZM1C3AX025</b> CCB10004	<b>BZM1C4AX025</b> CCB10017	<b>BZM1N3AX025</b> CCB10056	<b>BZM1N4AX025</b> CCB10069
<b>BZMm1B3AX032</b> CCB00109	<b>BZMm1B4AX032</b> CCB00122	<b>BZM1C3AX032</b> CCB10005	<b>BZM1C4AX032</b> CCB10018	<b>BZM1N3AX032</b> CCB10057	<b>BZM1N4AX032</b> CCB10070
<b>BZMm1B3AX040</b> CCB00110	<b>BZMm1B4AX040</b> CCB00123	<b>BZM1C3AX040</b> CCB10006	<b>BZM1C4AX040</b> CCB10019	<b>BZM1N3AX040</b> CCB10058	<b>BZM1N4AX040</b> CCB10071
<b>BZMm1B3AX050</b> CCB00111	<b>BZMm1B4AX050</b> CCB00124	<b>BZM1C3AX050</b> CCB10007	<b>BZM1C4AX050</b> CCB10020	<b>BZM1N3AX050</b> CCB10059	<b>BZM1N4AX050</b> CCB10072
<b>BZMm1B3AX063</b> CCB00112	<b>BZMm1B4AX063</b> CCB00125	<b>BZM1C3AX063</b> CCB10008	<b>BZM1C4AX063</b> CCB10021	<b>BZM1N3AX063</b> CCB10060	<b>BZM1N4AX063</b> CCB10073
<b>BZMm1B3AX080</b> CCB00113	<b>BZMm1B4AX080</b> CCB00126	<b>BZM1C3AX080</b> CCB10009	<b>BZM1C4AX080</b> CCB10022	<b>BZM1N3AX080</b> CCB10061	<b>BZM1N4AX080</b> CCB10074
<b>BZMm1B3AX100</b> CCB00114	<b>BZMm1B4AX100</b> CCB00127	<b>BZM1C3AX100</b> CCB10010	<b>BZM1C4AX100</b> CCB10023	<b>BZM1N3AX100</b> CCB10062	<b>BZM1N4AX100</b> CCB10075
<b>BZMm1B3AX125</b> CCB00115	<b>BZMm1B4AX125</b> CCB00128	<b>BZM1C3AX125</b> CCB10011	<b>BZM1C4AX125</b> CCB10024	<b>BZM1N3AX125</b> CCB10063	<b>BZM1N4AX125</b> CCB10076
<b>BZMm1B3AX140</b> CCB00116	<b>BZMm1B4AX140</b> CCB00129	<b>BZM1C3AX140</b> CCB10012	<b>BZM1C4AX140</b> CCB10025	<b>BZM1N3AX140</b> CCB10064	<b>BZM1N4AX140</b> CCB10077
<b>BZMm1B3AX160</b> CCB00117	<b>BZMm1B4AX160</b> CCB00130	<b>BZM1C3AX160</b> CCB10013	<b>BZM1C4AX160</b> CCB10026	<b>BZM1N3AX160</b> CCB10065	<b>BZM1N4AX160</b> CCB10078
<b>BZM2B3AX100</b> CCB20001	<b>BZM2B4AX100</b> CCB20009	<b>BZM2C3AX100</b> CCB20033	<b>BZM2C4AX100</b> CCB20041	<b>BZM2N3AX100</b> CCB20065	<b>BZM2N4AX100</b> CCB20073
<b>BZM2B3AX125</b> CCB20002	<b>BZM2B4AX125</b> CCB20010	<b>BZM2C3AX125</b> CCB20034	<b>BZM2C4AX125</b> CCB20042	<b>BZM2N3AX125</b> CCB20066	<b>BZM2N4AX125</b> CCB20074
<b>BZM2B3AX140</b> CCB20003	<b>BZM2B4AX140</b> CCB20011	<b>BZM2C3AX140</b> CCB20035	<b>BZM2C4AX140</b> CCB20043	<b>BZM2N3AX140</b> CCB20067	<b>BZM2N4AX140</b> CCB20075
<b>BZM2B3AX160</b> CCB20004	<b>BZM2B4AX160</b> CCB20012	<b>BZM2C3AX160</b> CCB20036	<b>BZM2C4AX160</b> CCB20044	<b>BZM2N3AX160</b> CCB20068	<b>BZM2N4AX160</b> CCB20076
<b>BZM2B3AX180</b> CCB20005	<b>BZM2B4AX180</b> CCB20013	<b>BZM2C3AX180</b> CCB20037	<b>BZM2C4AX180</b> CCB20045	<b>BZM2N3AX180</b> CCB20069	<b>BZM2N4AX180</b> CCB20077
<b>BZM2B3AX200</b> CCB20006	<b>BZM2B4AX200</b> CCB20014	<b>BZM2C3AX200</b> CCB20038	<b>BZM2C4AX200</b> CCB20046	<b>BZM2N3AX200</b> CCB20070	<b>BZM2N4AX200</b> CCB20078
<b>BZM2B3AX225</b> CCB20007	<b>BZM2B4AX225</b> CCB20015	<b>BZM2C3AX225</b> CCB20039	<b>BZM2C4AX225</b> CCB20047	<b>BZM2N3AX225</b> CCB20071	<b>BZM2N4AX225</b> CCB20079
<b>BZM2B3AX250</b> CCB20008	<b>BZM2B4AX250</b> CCB20016	<b>BZM2C3AX250</b> CCB20040	<b>BZM2C4AX250</b> CCB20048	<b>BZM2N3AX250</b> CCB20072	<b>BZM2N4AX250</b> CCB20080
<b>BZM3B3AX250</b> CCB30001	<b>BZM3B4AX250</b> CCB30007	<b>BZM3C3AX250</b> CCB30025	<b>BZM3C4AX250</b> CCB30031	<b>BZM3N3AX250</b> CCB30049	<b>BZM3N4AX250</b> CCB30055
<b>BZM3B3AX315</b> CCB30002	<b>BZM3B4AX315</b> CCB30008	<b>BZM3C3AX315</b> CCB30026	<b>BZM3C4AX315</b> CCB30032	<b>BZM3N3AX315</b> CCB30050	<b>BZM3N4AX315</b> CCB30056
<b>BZM3B3AX350</b> CCB30003	<b>BZM3B4AX350</b> CCB30009	<b>BZM3C3AX350</b> CCB30027	<b>BZM3C4AX350</b> CCB30033	<b>BZM3N3AX350</b> CCB30051	<b>BZM3N4AX350</b> CCB30057
<b>BZM3B3AX400</b> CCB30004	<b>BZM3B4AX400</b> CCB30010	<b>BZM3C3AX400</b> CCB30028	<b>BZM3C4AX400</b> CCB30034	<b>BZM3N3AX400</b> CCB30052	<b>BZM3N4AX400</b> CCB30058
<b>BZM3B3AX500</b> CCB30005	<b>BZM3B4AX500</b> CCB30011	<b>BZM3C3AX500</b> CCB30029	<b>BZM3C4AX500</b> CCB30035	<b>BZM3N3AX500</b> CCB30053	<b>BZM3N4AX500</b> CCB30059
<b>BZM3B3AX630</b> CCB30006	<b>BZM3B4AX630</b> CCB30012	<b>BZM3C3AX630</b> CCB30030	<b>BZM3C4AX630</b> CCB30036	<b>BZM3N3AX630</b> CCB30054	<b>BZM3N4AX630</b> CCB30060

# 1.4

## Molded Case Circuit Breakers BZM Circuit Breaker's Basic Devices

### BZM Magnetic only Motor Protection

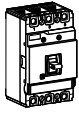
Rated current =  
Rated continuous current  
 $I_n = I_u$   
A

**Basic breaking capacity**  
**3P 15 kA**  
415 V 50/60 Hz  
**Part No.**  
Article No.

**Conventional breaking capacity**  
**3P 18 kA**  
415 V 50/60 Hz  
**Part No.**  
Article No.

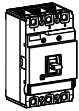
**Basic breaking capacity**  
**3P 25 kA**  
415 V 50/60 Hz  
**Part No.**  
Article No.

BZM1



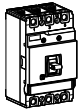
	<b>BZMm1D3MX010</b> CCB00027	<b>BZMm1F3MX010</b> CCB00079	<b>BZMm1B3MX010</b> CCB00131
10			
16	<b>BZMm1D3MX016</b> CCB00028	<b>BZMm1F3MX016</b> CCB00080	<b>BZMm1B3MX016</b> CCB00132
20	<b>BZMm1D3MX020</b> CCB00029	<b>BZMm1F3MX020</b> CCB00081	<b>BZMm1B3MX020</b> CCB00133
25	<b>BZMm1D3MX025</b> CCB00030	<b>BZMm1F3MX025</b> CCB00082	<b>BZMm1B3MX025</b> CCB00134
32	<b>BZMm1D3MX032</b> CCB00031	<b>BZMm1F3MX032</b> CCB00083	<b>BZMm1B3MX032</b> CCB00135
40	<b>BZMm1D3MX040</b> CCB00032	<b>BZMm1F3MX040</b> CCB00084	<b>BZMm1B3MX040</b> CCB00136
50	<b>BZMm1D3MX050</b> CCB00033	<b>BZMm1F3MX050</b> CCB00085	<b>BZMm1B3MX050</b> CCB00137
63	<b>BZMm1D3MX063</b> CCB00034	<b>BZMm1F3MX063</b> CCB00086	<b>BZMm1B3MX063</b> CCB00138
80	<b>BZMm1D3MX080</b> CCB00035	<b>BZMm1F3MX080</b> CCB00087	<b>BZMm1B3MX080</b> CCB00139
100	<b>BZMm1D3MX100</b> CCB00036	<b>BZMm1F3MX100</b> CCB00088	<b>BZMm1B3MX100</b> CCB00140
125	<b>BZMm1D3MX125</b> CCB00037	<b>BZMm1F3MX125</b> CCB00089	<b>BZMm1B3MX125</b> CCB00141
140	<b>BZMm1D3MX140</b> CCB00038	<b>BZMm1F3MX140</b> CCB00090	<b>BZMm1B3MX140</b> CCB00142
160	<b>BZMm1D3MX160</b> CCB00039	<b>BZMm1F3MX160</b> CCB00091	<b>BZMm1B3MX160</b> CCB00143

BZM2



100			<b>BZM2B3MX100</b> CCB20017
125			<b>BZM2B3MX125</b> CCB20018
140			<b>BZM2B3MX140</b> CCB20019
160			<b>BZM2B3MX160</b> CCB20020
180			<b>BZM2B3MX180</b> CCB20021
200			<b>BZM2B3MX200</b> CCB20022
225			<b>BZM2B3MX225</b> CCB20023
250			<b>BZM2B3MX250</b> CCB20024

BZM3



250			<b>BZM3B3MX250</b> CCB30013
315			<b>BZM3B3MX315</b> CCB30014
350			<b>BZM3B3MX350</b> CCB30015
400			<b>BZM3B3MX400</b> CCB30016
500			<b>BZM3B3MX500</b> CCB30017
630			<b>BZM3B3MX630</b> CCB30018

**Conventional  
breaking capacity  
3P 36 kA**

415 V 50/60 Hz

**Part No.**

Article No.

**Standard breaking  
capacity**

**3P 50 kA**

415 V 50/60 Hz

**Part No.**

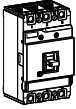
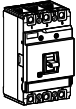
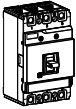
Article No.

<b>BZM1C3MX010</b> CCB10027	<b>BZM1N3MX010</b> CCB10079
<b>BZM1C3MX016</b> CCB10028	<b>BZM1N3MX016</b> CCB10080
<b>BZM1C3MX020</b> CCB10029	<b>BZM1N3MX020</b> CCB10081
<b>BZM1C3MX025</b> CCB10030	<b>BZM1N3MX025</b> CCB10082
<b>BZM1C3MX032</b> CCB10031	<b>BZM1N3MX032</b> CCB10083
<b>BZM1C3MX040</b> CCB10032	<b>BZM1N3MX040</b> CCB10084
<b>BZM1C3MX050</b> CCB10033	<b>BZM1N3MX050</b> CCB10085
<b>BZM1C3MX063</b> CCB10034	<b>BZM1N3MX063</b> CCB10086
<b>BZM1C3MX080</b> CCB10035	<b>BZM1N3MX080</b> CCB10087
<b>BZM1C3MX100</b> CCB10036	<b>BZM1N3MX100</b> CCB10088
<b>BZM1C3MX125</b> CCB10037	<b>BZM1N3MX125</b> CCB10089
<b>BZM1C3MX140</b> CCB10038	<b>BZM1N3MX140</b> CCB10090
<b>BZM1C3MX160</b> CCB10039	<b>BZM1N3MX160</b> CCB10091
<b>BZM2C3MX100</b> CCB20049	<b>BZM2N3MX100</b> CCB20081
<b>BZM2C3MX125</b> CCB20050	<b>BZM2N3MX125</b> CCB20082
<b>BZM2C3MX140</b> CCB20051	<b>BZM2N3MX140</b> CCB20083
<b>BZM2C3MX160</b> CCB20052	<b>BZM2N3MX160</b> CCB20084
<b>BZM2C3MX180</b> CCB20053	<b>BZM2N3MX180</b> CCB20085
<b>BZM2C3MX200</b> CCB20054	<b>BZM2N3MX200</b> CCB20086
<b>BZM2C3MX225</b> CCB20055	<b>BZM2N3MX225</b> CCB20087
<b>BZM2C3MX250</b> CCB20056	<b>BZM2N3MX250</b> CCB20088
<b>BZM3C3MX250</b> CCB30037	<b>BZM3N3MX250</b> CCB30061
<b>BZM3C3MX315</b> CCB30038	<b>BZM3N3MX315</b> CCB30062
<b>BZM3C3MX350</b> CCB30039	<b>BZM3N3MX350</b> CCB30063
<b>BZM3C3MX400</b> CCB30040	<b>BZM3N3MX400</b> CCB30064
<b>BZM3C3MX500</b> CCB30041	<b>BZM3N3MX500</b> CCB30065
<b>BZM3C3MX630</b> CCB30042	<b>BZM3N3MX630</b> CCB30066

# 1.4

## Molded Case Circuit Breakers BZM Circuit Breaker's Basic Devices

### BZM Residual Current Protection (Thermo-Magnetic)

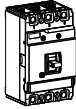
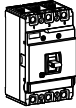
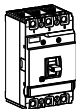
Rated current = Rated continuous current $I_n=I_u$ A	RSU: Type U, non-delayed 3P 50 kA Part No. Article No.	RSU: Type U, non-delayed 4P 50 kA Part No. Article No.	RSV: Type V, non-delayed 3P 50 kA Part No. Article No.	RSV: Type V, non-delayed 4P 50 kA Part No. Article No.		
BZM1 	10	<b>BZM1N3AX010RSU</b> CCB11001	<b>BZM1N4AX010RSU</b> CCCB11014	<b>BZM1N3AX010RSV</b> CCB11053	<b>BZM1N4AX010RSV</b> CCCB11066	
	16	<b>BZM1N3AX016RSU</b> CCB11002	<b>BZM1N4AX016RSU</b> CCB11015	<b>BZM1N3AX016RSV</b> CCB11054	<b>BZM1N4AX016RSV</b> CCB11067	
	20	<b>BZM1N3AX020RSU</b> CCB11003	<b>BZM1N4AX020RSU</b> CCB11016	<b>BZM1N3AX020RSV</b> CCB11055	<b>BZM1N4AX020RSV</b> CCB11068	
	25	<b>BZM1N3AX025RSU</b> CCB11004	<b>BZM1N4AX025RSU</b> CCB11017	<b>BZM1N3AX025RSV</b> CCB11056	<b>BZM1N4AX025RSV</b> CCB11069	
	32	<b>BZM1N3AX032RSU</b> CCB11005	<b>BZM1N4AX032RSU</b> CCB11018	<b>BZM1N3AX032RSV</b> CCB11057	<b>BZM1N4AX032RSV</b> CCB11070	
	40	<b>BZM1N3AX040RSU</b> CCB11006	<b>BZM1N4AX040RSU</b> CCB11019	<b>BZM1N3AX040RSV</b> CCB11058	<b>BZM1N4AX040RSV</b> CCB11071	
	50	<b>BZM1N3AX050RSU</b> CCB11007	<b>BZM1N4AX050RSU</b> CCB11020	<b>BZM1N3AX050RSV</b> CCB11059	<b>BZM1N4AX050RSV</b> CCB11072	
	63	<b>BZM1N3AX063RSU</b> CCB11008	<b>BZM1N4AX063RSU</b> CCB11021	<b>BZM1N3AX063RSV</b> CCB11060	<b>BZM1N4AX063RSV</b> CCB11073	
	80	<b>BZM1N3AX080RSU</b> CCB11009	<b>BZM1N4AX080RSU</b> CCB11022	<b>BZM1N3AX080RSV</b> CCB11061	<b>BZM1N4AX080RSV</b> CCB11074	
	100	<b>BZM1N3AX100RSU</b> CCB11010	<b>BZM1N4AX100RSU</b> CCB11023	<b>BZM1N3AX100RSV</b> CCB11062	<b>BZM1N4AX100RSV</b> CCB11075	
	125	<b>BZM1N3AX125RSU</b> CCB11011	<b>BZM1N4AX125RSU</b> CCB11024	<b>BZM1N3AX125RSV</b> CCB11063	<b>BZM1N4AX125RSV</b> CCB11076	
	140	<b>BZM1N3AX140RSU</b> CCB11012	<b>BZM1N4AX140RSU</b> CCB11025	<b>BZM1N3AX140RSV</b> CCB11064	<b>BZM1N4AX140RSV</b> CCB11077	
	160	<b>BZM1N3AX160RSU</b> CCB11013	<b>BZM1N4AX160RSU</b> CCB11026	<b>BZM1N3AX160RSV</b> CCB11065	<b>BZM1N4AX160RSV</b> CCB11078	
	BZM2 	100	<b>BZM2N3AX100RSU</b> CCB21001	<b>BZM2N4AX100RSU</b> CCB21009	<b>BZM2N3AX100RSV</b> CCB21033	<b>BZM2N4AX100RSV</b> CCB21041
		125	<b>BZM2N3AX125RSU</b> CCB21002	<b>BZM2N4AX125RSU</b> CCB21010	<b>BZM2N3AX125RSV</b> CCB21034	<b>BZM2N4AX125RSV</b> CCB21042
		140	<b>BZM2N3AX140RSU</b> CCB21003	<b>BZM2N4AX140RSU</b> CCB21011	<b>BZM2N3AX140RSV</b> CCB21035	<b>BZM2N4AX140RSV</b> CCB21043
160		<b>BZM2N3AX160RSU</b> CCB21004	<b>BZM2N4AX160RSU</b> CCB21012	<b>BZM2N3AX160RSV</b> CCB21036	<b>BZM2N4AX160RSV</b> CCB21044	
180		<b>BZM2N3AX180RSU</b> CCB21005	<b>BZM2N4AX180RSU</b> CCB21013	<b>BZM2N3AX180RSV</b> CCB21037	<b>BZM2N4AX180RSV</b> CCB21045	
200		<b>BZM2N3AX200RSU</b> CCB21006	<b>BZM2N4AX200RSU</b> CCB21014	<b>BZM2N3AX200RSV</b> CCB21038	<b>BZM2N4AX200RSV</b> CCB21046	
225		<b>BZM2N3AX225RSU</b> CCB21007	<b>BZM2N4AX225RSU</b> CCB21015	<b>BZM2N3AX225RSV</b> CCB21039	<b>BZM2N4AX225RSV</b> CCB21047	
250		<b>BZM2N3AX250RSU</b> CCB21008	<b>BZM2N4AX250RSU</b> CCB21016	<b>BZM2N3AX250RSV</b> CCB21040	<b>BZM2N4AX250RSV</b> CCB21048	
BZM3 	250			<b>BZM3N3AX250RSV</b> CCB31001	<b>BZM3N4AX250RSV</b> CCB31007	
	315			<b>BZM3N3AX315RSV</b> CCB31002	<b>BZM3N4AX315RSV</b> CCB31008	
	350			<b>BZM3N3AX350RSV</b> CCB31003	<b>BZM3N4AX350RSV</b> CCB31009	
	400			<b>BZM3N3AX400RSV</b> CCB31004	<b>BZM3N4AX400RSV</b> CCB31010	
	500			<b>BZM3N3AX500RSV</b> CCB31005	<b>BZM3N4AX500RSV</b> CCB31011	
	630			<b>BZM3N3AX630RSV</b> CCB31006	<b>BZM3N4AX630RSV</b> CCB31012	

<b>RSX: Type X, delayed 3P 50 kA</b>	<b>RSX: Type X, delayed 4P 50 kA</b>	<b>RSY: Type Y, delayed 3P 50 kA</b>	<b>RSY: Type Y, delayed 4P 50 kA</b>
<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>
Article No.	Article No.	Article No.	Article No.
<b>BZM1N3AX010RSX</b> CCB11105	<b>BZM1N4AX010RSX</b> CCB11118	<b>BZM1N3AX010RSY</b> CCB11157	<b>BZM1N4AX010RSY</b> CCB11170
<b>BZM1N3AX016RSX</b> CCB11106	<b>BZM1N4AX016RSX</b> CCB11119	<b>BZM1N3AX016RSY</b> CCB11158	<b>BZM1N4AX016RSY</b> CCB11171
<b>BZM1N3AX020RSX</b> CCB11107	<b>BZM1N4AX020RSX</b> CCB11120	<b>BZM1N3AX020RSY</b> CCB11159	<b>BZM1N4AX020RSY</b> CCB11172
<b>BZM1N3AX025RSX</b> CCB11108	<b>BZM1N4AX025RSX</b> CCB11121	<b>BZM1N3AX025RSY</b> CCB11160	<b>BZM1N4AX025RSY</b> CCB11173
<b>BZM1N3AX032RSX</b> CCB11109	<b>BZM1N4AX032RSX</b> CCB11122	<b>BZM1N3AX032RSY</b> CCB11161	<b>BZM1N4AX032RSY</b> CCB11174
<b>BZM1N3AX040RSX</b> CCB11110	<b>BZM1N4AX040RSX</b> CCB11123	<b>BZM1N3AX040RSY</b> CCB11162	<b>BZM1N4AX040RSY</b> CCB11175
<b>BZM1N3AX050RSX</b> CCB11111	<b>BZM1N4AX050RSX</b> CCB11124	<b>BZM1N3AX050RSY</b> CCB11163	<b>BZM1N4AX050RSY</b> CCB11176
<b>BZM1N3AX063RSX</b> CCB11112	<b>BZM1N4AX063RSX</b> CCB11125	<b>BZM1N3AX063RSY</b> CCB11164	<b>BZM1N4AX063RSY</b> CCB11177
<b>BZM1N3AX080RSX</b> CCB11113	<b>BZM1N4AX080RSX</b> CCB11126	<b>BZM1N3AX080RSY</b> CCB11165	<b>BZM1N4AX080RSY</b> CCB11178
<b>BZM1N3AX100RSX</b> CCB11114	<b>BZM1N4AX100RSX</b> CCB11127	<b>BZM1N3AX100RSY</b> CCB11166	<b>BZM1N4AX100RSY</b> CCB11179
<b>BZM1N3AX125RSX</b> CCB11115	<b>BZM1N4AX125RSX</b> CCB11128	<b>BZM1N3AX125RSY</b> CCB11167	<b>BZM1N4AX125RSY</b> CCB11180
<b>BZM1N3AX140RSX</b> CCB11116	<b>BZM1N4AX140RSX</b> CCB11129	<b>BZM1N3AX140RSY</b> CCB11168	<b>BZM1N4AX140RSY</b> CCB11181
<b>BZM1N3AX160RSX</b> CCB11117	<b>BZM1N4AX160RSX</b> CCB11130	<b>BZM1N3AX160RSY</b> CCB11169	<b>BZM1N4AX160RSY</b> CCB11182
<b>BZM2N3AX100RSX</b> CCB21065	<b>BZM2N4AX100RSX</b> CCB21073	<b>BZM2N3AX100RSY</b> CCB21097	<b>BZM2N4AX100RSY</b> CCB21105
<b>BZM2N3AX125RSX</b> CCB21066	<b>BZM2N4AX125RSX</b> CCB21074	<b>BZM2N3AX125RSY</b> CCB21098	<b>BZM2N4AX125RSY</b> CCB21106
<b>BZM2N3AX140RSX</b> CCB21067	<b>BZM2N4AX140RSX</b> CCB21075	<b>BZM2N3AX140RSY</b> CCB21099	<b>BZM2N4AX140RSY</b> CCB21107
<b>BZM2N3AX160RSX</b> CCB21068	<b>BZM2N4AX160RSX</b> CCB21076	<b>BZM2N3AX160RSY</b> CCB21100	<b>BZM2N4AX160RSY</b> CCB21108
<b>BZM2N3AX180RSX</b> CCB21069	<b>BZM2N4AX180RSX</b> CCB21077	<b>BZM2N3AX180RSY</b> CCB21101	<b>BZM2N4AX180RSY</b> CCB21109
<b>BZM2N3AX200RSX</b> CCB21070	<b>BZM2N4AX200RSX</b> CCB21078	<b>BZM2N3AX200RSY</b> CCB21102	<b>BZM2N4AX200RSY</b> CCB21110
<b>BZM2N3AX225RSX</b> CCB21071	<b>BZM2N4AX225RSX</b> CCB21079	<b>BZM2N3AX225RSY</b> CCB21103	<b>BZM2N4AX225RSY</b> CCB21111
<b>BZM2N3AX250RSX</b> CCB21072	<b>BZM2N4AX250RSX</b> CCB21080	<b>BZM2N3AX250RSY</b> CCB21104	<b>BZM2N4AX250RSY</b> CCB21112
		<b>BZM3N3AX250RSY</b> CCB31025	<b>BZM3N4AX250RSY</b> CCB31031
		<b>BZM3N3AX315RSY</b> CCB31026	<b>BZM3N4AX315RSY</b> CCB31032
		<b>BZM3N3AX350RSY</b> CCB31027	<b>BZM3N4AX350RSY</b> CCB31033
		<b>BZM3N3AX400RSY</b> CCB31028	<b>BZM3N4AX400RSY</b> CCB31034
		<b>BZM3N3AX500RSY</b> CCB31029	<b>BZM3N4AX500RSY</b> CCB31035
		<b>BZM3N3AX630RSY</b> CCB31030	<b>BZM3N4AX630RSY</b> CCB31036

# 1.4

## Molded Case Circuit Breakers BZM Circuit Breaker's Basic Devices

### BZM Residual Current Protection (Thermo-Magnetic, Alarm, No Tripping)

Rated current = Rated continuous current $I_n=I_u$ A	<b>RNU: Type U, alarm, no tripping 3P 50 kA Part No. Article No.</b>	<b>RNU: Type U, alarm, no tripping 4P 50 kA Part No. Article No.</b>	<b>RNV: Type V, alarm, no tripping 3P 50 kA Part No. Article No.</b>	<b>RNV: Type V, alarm, no tripping 4P 50 kA Part No. Article No.</b>	
BZM1 	10	<b>BZM1N3AX010RNU</b> CCB11209	<b>BZM1N4AX010RNU</b> CCCB11222	<b>BZM1N3AX010RNV</b> CCB11261	<b>BZM1N4AX010RNV</b> CCB11274
	16	<b>BZM1N3AX016RNU</b> CCB11210	<b>BZM1N4AX016RNU</b> CCB11223	<b>BZM1N3AX016RNV</b> CCB11262	<b>BZM1N4AX016RNV</b> CCB11275
	20	<b>BZM1N3AX020RNU</b> CCB11211	<b>BZM1N4AX020RNU</b> CCB11224	<b>BZM1N3AX020RNV</b> CCB11263	<b>BZM1N4AX020RNV</b> CCB11276
	25	<b>BZM1N3AX025RNU</b> CCB11212	<b>BZM1N4AX025RNU</b> CCB11225	<b>BZM1N3AX025RNV</b> CCB11264	<b>BZM1N4AX025RNV</b> CCB11277
	32	<b>BZM1N3AX032RNU</b> CCB11213	<b>BZM1N4AX032RNU</b> CCB11226	<b>BZM1N3AX032RNV</b> CCB11265	<b>BZM1N4AX032RNV</b> CCB11278
	40	<b>BZM1N3AX040RNU</b> CCB11214	<b>BZM1N4AX040RNU</b> CCB11227	<b>BZM1N3AX040RNV</b> CCB11266	<b>BZM1N4AX040RNV</b> CCB11279
	50	<b>BZM1N3AX050RNU</b> CCB11215	<b>BZM1N4AX050RNU</b> CCB11228	<b>BZM1N3AX050RNV</b> CCB11267	<b>BZM1N4AX050RNV</b> CCB11280
	63	<b>BZM1N3AX063RNU</b> CCB11216	<b>BZM1N4AX063RNU</b> CCB11229	<b>BZM1N3AX063RNV</b> CCB11268	<b>BZM1N4AX063RNV</b> CCB11281
	80	<b>BZM1N3AX080RNU</b> CCB11217	<b>BZM1N4AX080RNU</b> CCB11230	<b>BZM1N3AX080RNV</b> CCB11269	<b>BZM1N4AX080RNV</b> CCB11282
	100	<b>BZM1N3AX100RNU</b> CCB11218	<b>BZM1N4AX100RNU</b> CCB11231	<b>BZM1N3AX100RNV</b> CCB11270	<b>BZM1N4AX100RNV</b> CCB11283
	125	<b>BZM1N3AX125RNU</b> CCB11219	<b>BZM1N4AX125RNU</b> CCB11232	<b>BZM1N3AX125RNV</b> CCB11271	<b>BZM1N4AX125RNV</b> CCB11284
	140	<b>BZM1N3AX140RNU</b> CCB11220	<b>BZM1N4AX140RNU</b> CCB11233	<b>BZM1N3AX140RNV</b> CCB11272	<b>BZM1N4AX140RNV</b> CCB11285
	160	<b>BZM1N3AX160RNU</b> CCB11221	<b>BZM1N4AX160RNU</b> CCB11234	<b>BZM1N3AX160RNV</b> CCB11273	<b>BZM1N4AX160RNV</b> CCB11286
	BZM2 	100	<b>BZM2N3AX100RNU</b> CCB21129	<b>BZM2N4AX100RNU</b> CCB21137	<b>BZM2N3AX100RNV</b> CCB21161
125		<b>BZM2N3AX125RNU</b> CCB21130	<b>BZM2N4AX125RNU</b> CCB21138	<b>BZM2N3AX125RNV</b> CCB21162	<b>BZM2N4AX125RNV</b> CCB21170
140		<b>BZM2N3AX140RNU</b> CCB21131	<b>BZM2N4AX140RNU</b> CCB21139	<b>BZM2N3AX140RNV</b> CCB21163	<b>BZM2N4AX140RNV</b> CCB21171
160		<b>BZM2N3AX160RNU</b> CCB21132	<b>BZM2N4AX160RNU</b> CCB21140	<b>BZM2N3AX160RNV</b> CCB21164	<b>BZM2N4AX160RNV</b> CCB21172
180		<b>BZM2N3AX180RNU</b> CCB21133	<b>BZM2N4AX180RNU</b> CCB21141	<b>BZM2N3AX180RNV</b> CCB21165	<b>BZM2N4AX180RNV</b> CCB21173
200		<b>BZM2N3AX200RNU</b> CCB21134	<b>BZM2N4AX200RNU</b> CCB21142	<b>BZM2N3AX200RNV</b> CCB21166	<b>BZM2N4AX200RNV</b> CCB21174
225		<b>BZM2N3AX225RNU</b> CCB21135	<b>BZM2N4AX225RNU</b> CCB21143	<b>BZM2N3AX225RNV</b> CCB21167	<b>BZM2N4AX225RNV</b> CCB21175
250		<b>BZM2N3AX250RNU</b> CCB21136	<b>BZM2N4AX250RNU</b> CCB21144	<b>BZM2N3AX250RNV</b> CCB21168	<b>BZM2N4AX250RNV</b> CCB21176
BZM3 	250			<b>BZM3N3AX250RNV</b> CCB31049	<b>BZM3N4AX250RNV</b> CCB31055
	315			<b>BZM3N3AX315RNV</b> CCB31050	<b>BZM3N4AX315RNV</b> CCB31056
	350			<b>BZM3N3AX350RNV</b> CCB31051	<b>BZM3N4AX350RNV</b> CCB31057
	400			<b>BZM3N3AX400RNV</b> CCB31052	<b>BZM3N4AX400RNV</b> CCB31058
	500			<b>BZM3N3AX500RNV</b> CCB31053	<b>BZM3N4AX500RNV</b> CCB31059
	630			<b>BZM3N3AX630RNV</b> CCB31054	<b>BZM3N4AX630RNV</b> CCB31060

**RNX: Type X, alarm,  
no tripping  
3P 50 kA**

**RNX: Type X, alarm,  
no tripping  
4P 50 kA**

**RNY: Type Y, alarm,  
no tripping  
3P 50 kA**

**RNY: Type Y, alarm,  
no tripping  
4P 50 kA**

**Part No.**

**Part No.**

**Part No.**

**Part No.**

Article No.

Article No.

Article No.

Article No.

<b>BZM1N3AX010RNX</b> CCB11313	<b>BZM1N4AX010RNX</b> CCB11326	<b>BZM1N3AX010RNY</b> CCB11365	<b>BZM1N4AX010RNY</b> CCB11378
<b>BZM1N3AX016RNX</b> CCB11314	<b>BZM1N4AX016RNX</b> CCB11327	<b>BZM1N3AX016RNY</b> CCB11366	<b>BZM1N4AX016RNY</b> CCB11379
<b>BZM1N3AX020RNX</b> CCB11315	<b>BZM1N4AX020RNX</b> CCB11328	<b>BZM1N3AX020RNY</b> CCB11367	<b>BZM1N4AX020RNY</b> CCB11380
<b>BZM1N3AX025RNX</b> CCB11316	<b>BZM1N4AX025RNX</b> CCB11329	<b>BZM1N3AX025RNY</b> CCB11368	<b>BZM1N4AX025RNY</b> CCB11381
<b>BZM1N3AX032RNX</b> CCB11317	<b>BZM1N4AX032RNX</b> CCB11330	<b>BZM1N3AX032RNY</b> CCB11369	<b>BZM1N4AX032RNY</b> CCB11382
<b>BZM1N3AX040RNX</b> CCB11318	<b>BZM1N4AX040RNX</b> CCB11331	<b>BZM1N3AX040RNY</b> CCB11370	<b>BZM1N4AX040RNY</b> CCB11383
<b>BZM1N3AX050RNX</b> CCB11319	<b>BZM1N4AX050RNX</b> CCB11332	<b>BZM1N3AX050RNY</b> CCB11371	<b>BZM1N4AX050RNY</b> CCB11384
<b>BZM1N3AX063RNX</b> CCB11320	<b>BZM1N4AX063RNX</b> CCB11333	<b>BZM1N3AX063RNY</b> CCB11372	<b>BZM1N4AX063RNY</b> CCB11385
<b>BZM1N3AX080RNX</b> CCB11321	<b>BZM1N4AX080RNX</b> CCB11334	<b>BZM1N3AX080RNY</b> CCB11373	<b>BZM1N4AX080RNY</b> CCB11386
<b>BZM1N3AX100RNX</b> CCB11322	<b>BZM1N4AX100RNX</b> CCB11335	<b>BZM1N3AX100RNY</b> CCB11374	<b>BZM1N4AX100RNY</b> CCB11387
<b>BZM1N3AX125RNX</b> CCB11323	<b>BZM1N4AX125RNX</b> CCB11336	<b>BZM1N3AX125RNY</b> CCB11375	<b>BZM1N4AX125RNY</b> CCB11388
<b>BZM1N3AX140RNX</b> CCB11324	<b>BZM1N4AX140RNX</b> CCB11337	<b>BZM1N3AX140RNY</b> CCB11376	<b>BZM1N4AX140RNY</b> CCB11389
<b>BZM1N3AX160RNX</b> CCB11325	<b>BZM1N4AX160RNX</b> CCB11338	<b>BZM1N3AX160RNY</b> CCB11377	<b>BZM1N4AX160RNY</b> CCB11390
<b>BZM2N3AX100RNX</b> CCB21193	<b>BZM2N4AX100RNX</b> CCB21201	<b>BZM2N3AX100RNY</b> CCB21225	<b>BZM2N4AX100RNY</b> CCB21233
<b>BZM2N3AX125RNX</b> CCB21194	<b>BZM2N4AX125RNX</b> CCB21202	<b>BZM2N3AX125RNY</b> CCB21226	<b>BZM2N4AX125RNY</b> CCB21234
<b>BZM2N3AX140RNX</b> CCB21195	<b>BZM2N4AX140RNX</b> CCB21203	<b>BZM2N3AX140RNY</b> CCB21227	<b>BZM2N4AX140RNY</b> CCB21235
<b>BZM2N3AX160RNX</b> CCB21196	<b>BZM2N4AX160RNX</b> CCB21204	<b>BZM2N3AX160RNY</b> CCB21228	<b>BZM2N4AX160RNY</b> CCB21236
<b>BZM2N3AX180RNX</b> CCB21197	<b>BZM2N4AX180RNX</b> CCB21205	<b>BZM2N3AX180RNY</b> CCB21229	<b>BZM2N4AX180RNY</b> CCB21237
<b>BZM2N3AX200RNX</b> CCB21198	<b>BZM2N4AX200RNX</b> CCB21206	<b>BZM2N3AX200RNY</b> CCB21230	<b>BZM2N4AX200RNY</b> CCB21238
<b>BZM2N3AX225RNX</b> CCB21199	<b>BZM2N4AX225RNX</b> CCB21207	<b>BZM2N3AX225RNY</b> CCB21231	<b>BZM2N4AX225RNY</b> CCB21239
<b>BZM2N3AX250RNX</b> CCB21200	<b>BZM2N4AX250RNX</b> CCB21208	<b>BZM2N3AX250RNY</b> CCB21232	<b>BZM2N4AX250RNY</b> CCB21240
		<b>BZM3N3AX250RNY</b> CCB31073	<b>BZM3N4AX250RNY</b> CCB31079
		<b>BZM3N3AX315RNY</b> CCB31074	<b>BZM3N4AX315RNY</b> CCB31080
		<b>BZM3N3AX350RNY</b> CCB31075	<b>BZM3N4AX350RNY</b> CCB31081
		<b>BZM3N3AX400RNY</b> CCB31076	<b>BZM3N4AX400RNY</b> CCB31082
		<b>BZM3N3AX500RNY</b> CCB31077	<b>BZM3N4AX500RNY</b> CCB31083
		<b>BZM3N3AX630RNY</b> CCB31078	<b>BZM3N4AX630RNY</b> CCB31084

### BZM Residual Current Protection (Magnetic only)

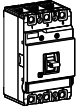
Rated current = Rated continuous current $I_n = I_u$ A	<b>RSU: Type U, non-delayed</b> <b>3P 50 kA</b> <b>Part No.</b> Article No.	<b>RSV: Type V, non-delayed</b> <b>3P 50 kA</b> <b>Part No.</b> Article No.	<b>RSX: Type X, delayed</b> <b>3P 50 kA</b> <b>Part No.</b> Article No.	<b>RSY: Type Y, delayed</b> <b>3P 50 kA</b> <b>Part No.</b> Article No.		
BZM1 	10	<b>BZM1N3MX010RSU</b> CCB11027	<b>BZM1N3MX010RSV</b> CCB11079	<b>BZM1N3MX010RSX</b> CCB11131	<b>BZM1N3MX010RSY</b> CCB11183	
	16	<b>BZM1N3MX016RSU</b> CCB11028	<b>BZM1N3MX016RSV</b> CCB11080	<b>BZM1N3MX016RSX</b> CCB11132	<b>BZM1N3MX016RSY</b> CCB11184	
	20	<b>BZM1N3MX020RSU</b> CCB11029	<b>BZM1N3MX020RSV</b> CCB11081	<b>BZM1N3MX020RSX</b> CCB11133	<b>BZM1N3MX020RSY</b> CCB11185	
	25	<b>BZM1N3MX025RSU</b> CCB11030	<b>BZM1N3MX025RSV</b> CCB11082	<b>BZM1N3MX025RSX</b> CCB11134	<b>BZM1N3MX025RSY</b> CCB11186	
	32	<b>BZM1N3MX032RSU</b> CCB11031	<b>BZM1N3MX032RSV</b> CCB11083	<b>BZM1N3MX032RSX</b> CCB11135	<b>BZM1N3MX032RSY</b> CCB11187	
	40	<b>BZM1N3MX040RSU</b> CCB11032	<b>BZM1N3MX040RSV</b> CCB11084	<b>BZM1N3MX040RSX</b> CCB11136	<b>BZM1N3MX040RSY</b> CCB11188	
	50	<b>BZM1N3MX050RSU</b> CCB11033	<b>BZM1N3MX050RSV</b> CCB11085	<b>BZM1N3MX050RSX</b> CCB11137	<b>BZM1N3MX050RSY</b> CCB11189	
	63	<b>BZM1N3MX063RSU</b> CCB11034	<b>BZM1N3MX063RSV</b> CCB11086	<b>BZM1N3MX063RSX</b> CCB11138	<b>BZM1N3MX063RSY</b> CCB11190	
	80	<b>BZM1N3MX080RSU</b> CCB11035	<b>BZM1N3MX080RSV</b> CCB11087	<b>BZM1N3MX080RSX</b> CCB11139	<b>BZM1N3MX080RSY</b> CCB11191	
	100	<b>BZM1N3MX100RSU</b> CCB11036	<b>BZM1N3MX100RSV</b> CCB11088	<b>BZM1N3MX100RSX</b> CCB11140	<b>BZM1N3MX100RSY</b> CCB11192	
	125	<b>BZM1N3MX125RSU</b> CCB11037	<b>BZM1N3MX125RSV</b> CCB11089	<b>BZM1N3MX125RSX</b> CCB11141	<b>BZM1N3MX125RSY</b> CCB11193	
	140	<b>BZM1N3MX140RSU</b> CCB11038	<b>BZM1N3MX140RSV</b> CCB11090	<b>BZM1N3MX140RSX</b> CCB11142	<b>BZM1N3MX140RSY</b> CCB11194	
	160	<b>BZM1N3MX160RSU</b> CCB11039	<b>BZM1N3MX160RSV</b> CCB11091	<b>BZM1N3MX160RSX</b> CCB11143	<b>BZM1N3MX160RSY</b> CCB11195	
	BZM2 	100	<b>BZM2N3MX100RSU</b> CCB21017	<b>BZM2N3MX100RSV</b> CCB21049	<b>BZM2N3MX100RSX</b> CCB21081	<b>BZM2N3MX100RSY</b> CCB21113
		125	<b>BZM2N3MX125RSU</b> CCB21018	<b>BZM2N3MX125RSV</b> CCB21050	<b>BZM2N3MX125RSX</b> CCB21082	<b>BZM2N3MX125RSY</b> CCB21114
		140	<b>BZM2N3MX140RSU</b> CCB21019	<b>BZM2N3MX140RSV</b> CCB21051	<b>BZM2N3MX140RSX</b> CCB21083	<b>BZM2N3MX140RSY</b> CCB21115
160		<b>BZM2N3MX160RSU</b> CCB21020	<b>BZM2N3MX160RSV</b> CCB21052	<b>BZM2N3MX160RSX</b> CCB21084	<b>BZM2N3MX160RSY</b> CCB21116	
180		<b>BZM2N3MX180RSU</b> CCB21021	<b>BZM2N3MX180RSV</b> CCB21053	<b>BZM2N3MX180RSX</b> CCB21085	<b>BZM2N3MX180RSY</b> CCB21117	
200		<b>BZM2N3MX200RSU</b> CCB21022	<b>BZM2N3MX200RSV</b> CCB21054	<b>BZM2N3MX200RSX</b> CCB21086	<b>BZM2N3MX200RSY</b> CCB21118	
225		<b>BZM2N3MX225RSU</b> CCB21023	<b>BZM2N3MX225RSV</b> CCB21055	<b>BZM2N3MX225RSX</b> CCB21087	<b>BZM2N3MX225RSY</b> CCB21119	
250		<b>BZM2N3MX250RSU</b> CCB21024	<b>BZM2N3MX250RSV</b> CCB21056	<b>BZM2N3MX250RSX</b> CCB21088	<b>BZM2N3MX250RSY</b> CCB21120	
BZM3 	250		<b>BZM3N3MX250RSV</b> CCB31013		<b>BZM3N3MX250RSY</b> CCB31037	
	315		<b>BZM3N3MX315RSV</b> CCB31014		<b>BZM3N3MX315RSY</b> CCB31038	
	350		<b>BZM3N3MX350RSV</b> CCB31015		<b>BZM3N3MX350RSY</b> CCB31039	
	400		<b>BZM3N3MX400RSV</b> CCB31016		<b>BZM3N3MX400RSY</b> CCB31040	
	500		<b>BZM3N3MX500RSV</b> CCB31017		<b>BZM3N3MX500RSY</b> CCB31041	
630		<b>BZM3N3MX630RSV</b> CCB31018		<b>BZM3N3MX630RSY</b> CCB31042		



**BZM Residual Current Protection (Magnetic only, Alarm, No Tripping)**

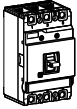
Rated current = Rated continuous current $I_n=I_u$ A	<b>RNU: Type U, alarm, no tripping 3P 50 kA Part No. Article No.</b>	<b>RNV: Type V, alarm, no tripping 3P 50 kA Part No. Article No.</b>	<b>RNX: Type X, alarm, no tripping 3P 50 kA Part No. Article No.</b>	<b>RNY: Type Y, alarm, no tripping 3P 50 kA Part No. Article No.</b>
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BZM1



10	<b>BZM1N3MX010RNU</b> CCB11235	<b>BZM1N3MX010RNV</b> CCB11287	<b>BZM1N3MX010RNX</b> CCB11339	<b>BZM1N3MX010RNY</b> CCB11391
16	<b>BZM1N3MX016RNU</b> CCB11236	<b>BZM1N3MX016RNV</b> CCB11288	<b>BZM1N3MX016RNX</b> CCB11340	<b>BZM1N3MX016RNY</b> CCB11392
20	<b>BZM1N3MX020RNU</b> CCB11237	<b>BZM1N3MX020RNV</b> CCB11289	<b>BZM1N3MX020RNX</b> CCB11341	<b>BZM1N3MX020RNY</b> CCB11393
25	<b>BZM1N3MX025RNU</b> CCB11238	<b>BZM1N3MX025RNV</b> CCB11290	<b>BZM1N3MX025RNX</b> CCB11342	<b>BZM1N3MX025RNY</b> CCB11394
32	<b>BZM1N3MX032RNU</b> CCB11239	<b>BZM1N3MX032RNV</b> CCB11291	<b>BZM1N3MX032RNX</b> CCB11343	<b>BZM1N3MX032RNY</b> CCB11395
40	<b>BZM1N3MX040RNU</b> CCB11240	<b>BZM1N3MX040RNV</b> CCB11292	<b>BZM1N3MX040RNX</b> CCB11344	<b>BZM1N3MX040RNY</b> CCB11396
50	<b>BZM1N3MX050RNU</b> CCB11241	<b>BZM1N3MX050RNV</b> CCB11293	<b>BZM1N3MX050RNX</b> CCB11345	<b>BZM1N3MX050RNY</b> CCB11397
63	<b>BZM1N3MX063RNU</b> CCB11242	<b>BZM1N3MX063RNV</b> CCB11294	<b>BZM1N3MX063RNX</b> CCB11346	<b>BZM1N3MX063RNY</b> CCB11398
80	<b>BZM1N3MX080RNU</b> CCB11243	<b>BZM1N3MX080RNV</b> CCB11295	<b>BZM1N3MX080RNX</b> CCB11347	<b>BZM1N3MX080RNY</b> CCB11399
100	<b>BZM1N3MX100RNU</b> CCB11244	<b>BZM1N3MX100RNV</b> CCB11296	<b>BZM1N3MX100RNX</b> CCB11348	<b>BZM1N3MX100RNY</b> CCB11400
125	<b>BZM1N3MX125RNU</b> CCB11245	<b>BZM1N3MX125RNV</b> CCB11297	<b>BZM1N3MX125RNX</b> CCB11349	<b>BZM1N3MX125RNY</b> CCB11401
140	<b>BZM1N3MX140RNU</b> CCB11246	<b>BZM1N3MX140RNV</b> CCB11298	<b>BZM1N3MX140RNX</b> CCB11350	<b>BZM1N3MX140RNY</b> CCB11402
160	<b>BZM1N3MX160RNU</b> CCB11247	<b>BZM1N3MX160RNV</b> CCB11299	<b>BZM1N3MX160RNX</b> CCB11351	<b>BZM1N3MX160RNY</b> CCB11403

BZM2



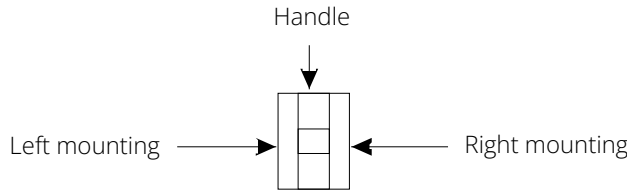
100	<b>BZM2N3MX100RNU</b> CCB21145	<b>BZM2N3MX100RNV</b> CCB21177	<b>BZM2N3MX100RNX</b> CCB21209	<b>BZM2N3MX100RNY</b> CCB21241
125	<b>BZM2N3MX125RNU</b> CCB21146	<b>BZM2N3MX125RNV</b> CCB21178	<b>BZM2N3MX125RNX</b> CCB21210	<b>BZM2N3MX125RNY</b> CCB21242
140	<b>BZM2N3MX140RNU</b> CCB21147	<b>BZM2N3MX140RNV</b> CCB21179	<b>BZM2N3MX140RNX</b> CCB21211	<b>BZM2N3MX140RNY</b> CCB21243
160	<b>BZM2N3MX160RNU</b> CCB21148	<b>BZM2N3MX160RNV</b> CCB21180	<b>BZM2N3MX160RNX</b> CCB21212	<b>BZM2N3MX160RNY</b> CCB21244
180	<b>BZM2N3MX180RNU</b> CCB21149	<b>BZM2N3MX180RNV</b> CCB21181	<b>BZM2N3MX180RNX</b> CCB21213	<b>BZM2N3MX180RNY</b> CCB21245
200	<b>BZM2N3MX200RNU</b> CCB21150	<b>BZM2N3MX200RNV</b> CCB21182	<b>BZM2N3MX200RNX</b> CCB21214	<b>BZM2N3MX200RNY</b> CCB21246
225	<b>BZM2N3MX225RNU</b> CCB21151	<b>BZM2N3MX225RNV</b> CCB21183	<b>BZM2N3MX225RNX</b> CCB21215	<b>BZM2N3MX225RNY</b> CCB21247
250	<b>BZM2N3MX250RNU</b> CCB21152	<b>BZM2N3MX250RNV</b> CCB21184	<b>BZM2N3MX250RNX</b> CCB21216	<b>BZM2N3MX250RNY</b> CCB21248

BZM3



250		<b>BZM3N3MX250RNV</b> CCB31061		<b>BZM3N3MX250RNY</b> CCB31085
315		<b>BZM3N3MX315RNV</b> CCB31062		<b>BZM3N3MX315RNY</b> CCB31086
350		<b>BZM3N3MX350RNV</b> CCB31063		<b>BZM3N3MX350RNY</b> CCB31087
400		<b>BZM3N3MX400RNV</b> CCB31064		<b>BZM3N3MX400RNY</b> CCB31088
500		<b>BZM3N3MX500RNV</b> CCB31065		<b>BZM3N3MX500RNY</b> CCB31089
630		<b>BZM3N3MX630RNV</b> CCB31066		<b>BZM3N3MX630RNY</b> CCB31090

### Electrical Accessories Combination Mode for (for AX/MX Products)



#### Legends

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

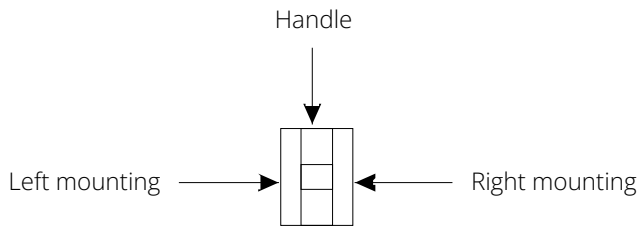
### Tripping Method Accessory Code Comparison Table

Accessory code	Accessory name	BZMm1		BZM1		BZM2		BZM3	
		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 contact	■◆	■◆	■◆	■◆	■◆	■◆	■◆	■◆
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 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	★▲	★▲	★▲	★▲	★▲	★▲	★▲	★▲

Notes for accessory selection: ① The auxiliary switches and alarm switches in the BZMm1, BZM1, BZM2 series all support mounting on the left and right sides of the circuit breaker.

② The alarm switches in the BZM3 series only support mounting on the left side of the circuit breaker, while the auxiliary switches support mounting on the left and right side of the circuit breaker.

**Electrical Accessories Combination Mode (For RSU/RSV/RSX/RSY/RNU/RNV/RNX/RNY Residual Current Protection Products)**



**Legends**

- AL: Alarm contact
- AX: Auxiliary contact
- SHT: Shunt release
- UVT: Under-voltage release
- Outgoing lead direction

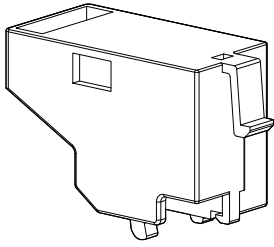
**Tripping Method Accessory Code Comparison Table**

Accessory name	BZM1		BZM2		BZM3	
	3P	4P	3P	4P	3P	4P
AL: Alarm contact						
AX: Auxiliary contact						
SHT: Shunt release	Note ①	Note ①	Note ①	Note ①	Note ①	Note ①
UVT: Under-voltage release	Note ①	Note ①	Note ①	Note ①	Note ①	Note ①
SHT: Shunt release + UVT: Under-voltage release		Note ①		Note ①		Note ①
AL: Alarm contact + AX: Auxiliary contact						
AL: Alarm contact + SHT: Shunt release		Note ①		Note ①	Note ①	Note ①
AL: Alarm contact + UVT: Under-voltage release		Note ①		Note ①	Note ①	Note ①
AX: Auxiliary contact + SHT: Shunt release		Note ①		Note ①	Note ①	Note ①
AX: Auxiliary contact + UVT: Under-voltage release		Note ①		Note ①	Note ①	Note ①
AX: Auxiliary contact + AL: Alarm contact + SHT: Shunt release		Note ①		Note ①	Note ①	Note ①
AX: Auxiliary contact + AL: Alarm contact + UVT: Under-voltage release		Note ①		Note ①	Note ①	Note ①

Note: a Left mounting is standard for SHT, and right mounting is standard for UVT.

# 1.5

## Molded Case Circuit Breakers BZM Circuit Breaker's Accessories



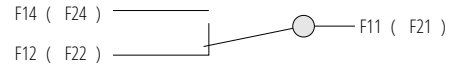
BZM auxiliary contact

### Auxiliary Contact (BZM/Z)

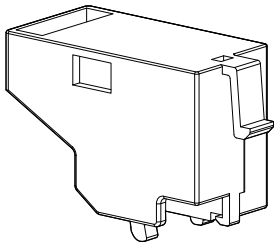
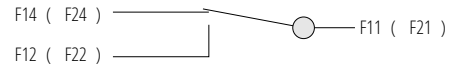
#### Circuit breaker status

CB in Open position

#### Auxiliary switch status



CB in Closed position



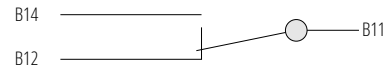
BZM alarm contact

### Alarm Contact (BZM/ZA)

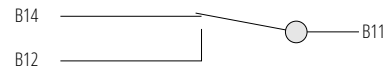
#### Circuit breaker status

CB in Open and Closed positions

#### Alarm contact status



CB in Tripped position



### Rated Operating Current of Alarm Contact and Auxiliary Contact

Category	Rated current $I_{nm}$	Conventional thermal current $I_{th}$ (A)	Rated operating current $I_e$ (A)	
			AC400V	DC220V
Auxiliary contact	$\leq 250$	3	0.3	0.15
	$400 \leq I_{nm} \leq 1000$	3	0.4	2
Alarm contact	$10 \leq I_{nm} \leq 1000$	-	AC220V/1.0A	0.15

### Making and Breaking Capacity of Alarm Contact and Auxiliary Contact under Normal Conditions

Utilization category	Making (ON)				Breaking (OFF)				Power-on operations	Operating cycles per minute	Power-on time
	$I/I_e$	$U/U_e$	$\cos\phi$	$T_{0.95}$	$I/I_e$	$U/U_e$	$\cos\phi$	$T_{0.95}$			
AC-14	10	1	0.7	-	1	1	0.7	-	6050	6	$\geq 0.05s$
DC-13	1	1	-	$6 \times Pe$	1	1	-	$6 \times Pe$			$\geq 0.05s$

### Making and Breaking Capacity of Alarm Contact and Auxiliary Contact under Abnormal Conditions

Utilization category	Making (ON)				Breaking (OFF)				Power-on operations	Operating cycles per minute	Power-on time
	I/Ie	U/Ue	cosφ	T <sub>0.95</sub>	I/Ie	U/Ue	cosφ	T <sub>0.95</sub>			
AC-14	1	1	0.7	-	1	1	0.7	-			≥ 0.05s
DC-13	1.1	1.1	-	6×Pe	1.1	1.1	-	6×Pe	10	6	≥ 0.05s

**Notes:**

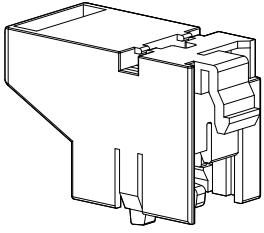
- ① T<sub>0.95</sub>=6Pe is an empirical formula, where Pe is in "watts" and T<sub>0.95</sub> is in milliseconds;
- ② When the total operation performance of the circuit breaker is less than 6050 times, the number of power-on operations of the auxiliary contact can be the same as the total operation performance of the circuit breaker;
- ③ The operating frequency and power-on time are allowed to be consistent with the main circuit of the circuit breaker;
- ④ If T<sub>0.95</sub> is greater than 0.05s, the power-on time is at least T<sub>0.95</sub>

### Auxiliary Contact/ Alarm Contact

Accessory name	Frame	Part No.	Article No.	Remark
Auxiliary Contact/ Alarm	BZMm1	BZMm1/Z L	CCB90001	L: Left mounting R: Right mounting N/A: 80cm long for both left and right lines
		BZMm1/Z R	CCB90002	
		BZMm1/2Z L	CCB90003	
		BZMm1/2Z R	CCB90004	
		BZMm1/ZA L	CCB90005	
		BZMm1/ZA R	CCB90006	
		BZMm1/Z+ZA L	CCB90007	
		BZMm1/Z+ZA R	CCB90008	
	BZM1	BZM1/Z	CCB90009	
		BZM1/2Z	CCB90010	
		BZM1/ZA	CCB90011	
		BZM1/Z+ZA	CCB90012	
	BZM2	BZM2/Z L	CCB90013	
		BZM2/Z R	CCB90014	
		BZM2/2Z L	CCB90015	
		BZM2/2Z R	CCB90016	
		BZM2/ZA L	CCB90017	
		BZM2/ZA R	CCB90018	
		BZM2/Z+ZA L	CCB90019	
		BZM2/Z+ZA R	CCB90020	
BZM3	BZM3/Z	CCB90021		
	BZM3/ZA	CCB90022		
	BZM3/Z+ZA	CCB90023		

# 1.5

## Molded Case Circuit Breakers BZM Circuit Breaker's Accessories



BZM/UVT (Under-Voltage Release)

### Under-voltage release (BZM/UVT)

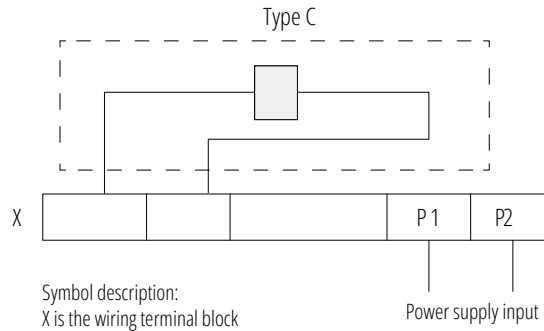
Rated operating voltage AC400V AC230V

Action characteristics

- At 35%-70% of the rated operating voltage, the under-voltage release should reliably trip the circuit breaker
- At 85%-110% of the rated operating voltage, the under-voltage release should ensure that the circuit breaker can be closed
- When lower than 35% of the rated operating voltage, the under-voltage release should prevent the circuit breaker from being closed

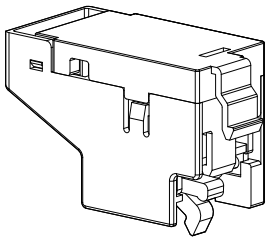
### External Module Wiring Diagram of Under-Voltage Release

(in the dotted grid is the internal accessories of the circuit breaker)



### Under-voltage release

Accessory name	Frame	Part No.	Article No.	Note
Under-voltage release	BZMm1	<b>BZMm1/UVT 400V</b>	CCB90024	Right mounting
		<b>BZMm1/UVT 230V</b>	CCB90025	
	BZM1	<b>BZM1/UVT 400V</b>	CCB90026	
		<b>BZM1/UVT 230V</b>	CCB90027	
	BZM2	<b>BZM2/UVT 400V</b>	CCB90028	
		<b>BZM2/UVT 230V</b>	CCB90029	
	BZM3	<b>BZM3/UVT 400V</b>	CCB90030	
		<b>BZM3/UVT 230V</b>	CCB90031	



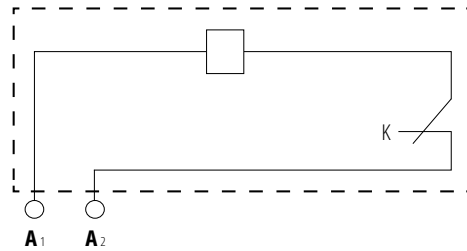
BZM/SHT (Shunt Release)

### Shunt release (BZM/SHT)

Rated operating voltage	AC50Hz: 400V, 230V DC: 24V, 220V
Action characteristics	At 70%-110% of the rated control voltage, the shunt release can trip the circuit breaker

#### Wiring Diagram

(inside the dotted grid is the internal accessory of the circuit breaker)



Power supply input

K, a microswitch connected in series with the coil inside the shunt release, is a normally closed contact. When the circuit breaker is opened, the contact opens itself and closes when closed.

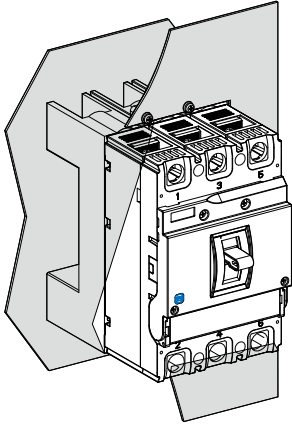
### Shunt release

Accessory name	Frame	Part No.	Article No.	Description	Remark			
Shunt release	BZMm1	<b>BZMm1/SHT 400V</b>	CCB90032	Line length: 80cm	Left mounting			
		<b>BZMm1/SHT 230V</b>	CCB90033	Line length: 80cm				
		<b>BZMm1/SHT DC24V</b>	CCB90034	Line length: 60cm				
BZM1	BZM1	<b>BZM1/SHT 400V</b>	CCB90035	Line length: 80cm				
		<b>BZM1/SHT 230V</b>	CCB90036	Line length: 80cm				
		<b>BZM1/SHT DC110V</b>	CCB90037	Line length: 80cm				
		<b>BZM1/SHT DC24V</b>	CCB90038	Line length: 60cm				
		<b>BZM1/SHT DC220V</b>	CCB90039	Line length: 80cm				
		BZM2	BZM2	<b>BZM2/SHT 400V</b>		CCB90040	Line length: 80cm	
				<b>BZM2/SHT 230V</b>		CCB90041	Line length: 80cm	
<b>BZM2/SHT DC110V</b>	CCB90042			Line length: 80cm				
<b>BZM2/SHT DC24V</b>	CCB90043			Line length: 60cm				
<b>BZM2/SHT DC220V</b>	CCB90044			Line length: 80cm				
BZM3	BZM3	<b>BZM3/SHT 400V</b>	CCB90045	Line length: 80cm				
		<b>BZM3/SHT 230V</b>	CCB90046	Line length: 80cm				
		<b>BZM3/SHT DC220V</b>	CCB90047	Line length: 80cm				
		<b>BZM3/SHT DC24V</b>	CCB90048	Line length: 60cm				
		<b>BZM3/SHT AC110V/DC110V</b>	CCB90049	Line length: 80cm				

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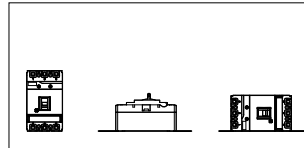
## Molded Case Circuit Breakers BZM Circuit Breaker's Accessories

### Plug-in Base (BZM/P)



#### Plug-in Circuit Breaker Advantages

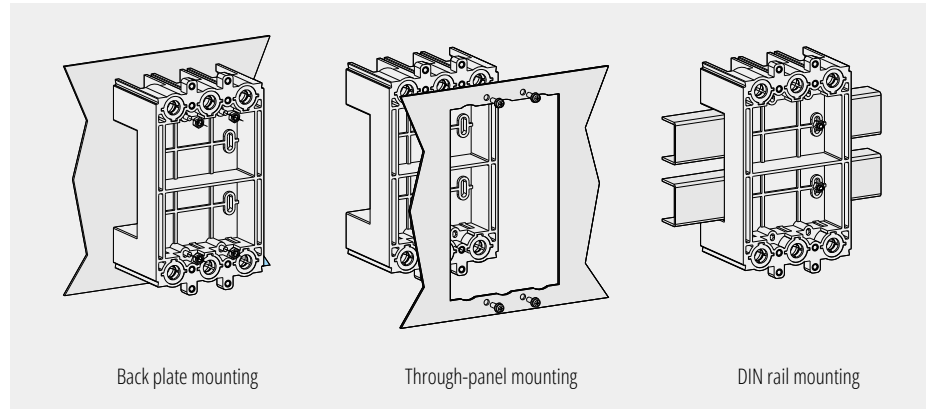
- Enables removal or quick replacement of the circuit breaker without accessing incoming and outgoing wires and mounting base;
- Allows pre-installation of plug-in bases, convenient for users to add circuit breakers later;
- Power circuits can be isolated during back plate mounting or through-panel mounting of the circuit breaker.



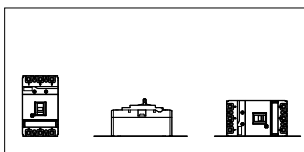
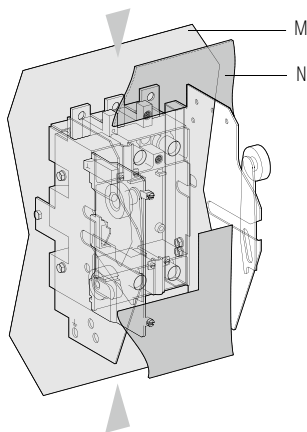
Mounting method

#### Plug-in Circuit Breaker Configuration

- The plug-in unit is a fixed part of the plug-in circuit breaker;
- It can be mounted directly on the back panel of the switchboard;
- The circuit breaker is mounted on the plug-in unit with fixing screws.



### Withdrawable Wiring (BZM/W)



Mounting method

#### Withdrawable Circuit Breaker Advantages

The withdrawable circuit breaker offers the same advantages as the plug-in type and is very easy to operate. The withdrawable circuit breaker has three positions:

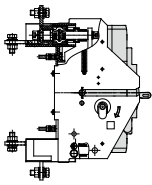
- Connected position: power circuit is on;
- Test position: the power circuit is off, to operate on the circuit breaker to check the auxiliary circuit;
- Separated position: The circuit breaker can be removed from the base.

#### Withdrawable Circuit Breaker Configuration

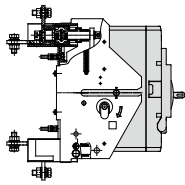
In the withdrawable circuit breaker configuration, two side panels need to be installed on both the base and circuit breaker. Similar to the plug-in configuration, when racking in or out a circuit breaker, if the circuit breaker is in the closed and ON status, the safety trip device causes the circuit breaker to automatically trip, to enable racking in or out operations in the "Open" position.



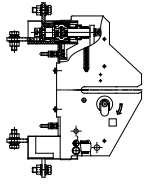
### Withdrawable Base (BZM/P)



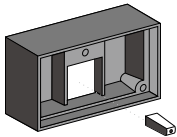
Connected position



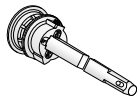
Withdraw a circuit breaker



Withdrawable position



The toggle switch cover, to ensure IP4 protection level when in Connected position and Disconnected position

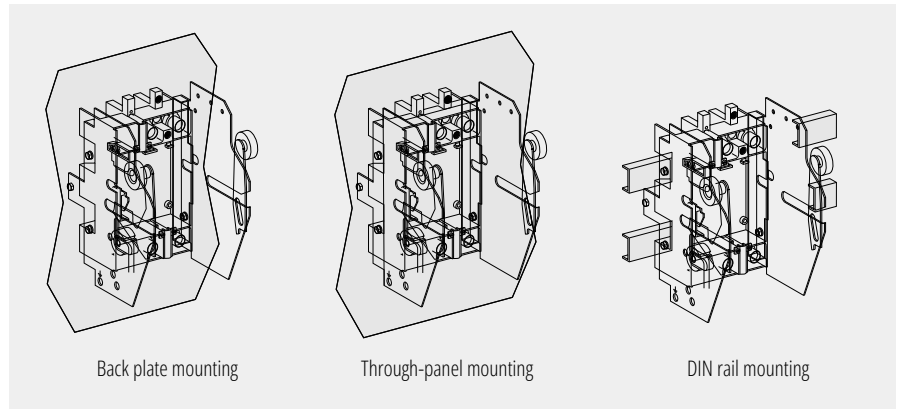


Telescopic shaft

### Accessories

The withdrawable device uses the same base as the plug-in type. In addition, it features:

- Drawer auxiliary contacts, indicating the "Connected" position and "Test" position of the circuit breaker;
- 1 to 3 padlocks (5 to 8mm diameter) to lock, allowing:
  - Prevent the circuit breaker from racking in;
  - Lock the circuit breaker in the "Connected" or "Withdrawn" position;
- Ensure the circuit breaker to have appropriate protection level;
- Telescopic shaft for extending the rotary handle. The door can be closed when the device is in the "Connected" position and "Withdrawable" position.



Back plate mounting

Through-panel mounting

DIN rail mounting

### Plug-in Base/Withdrawable Base

Accessories name	Frame	Part No.	Article No.	Remark
<b>Rear panel wiring</b>				
Plug-in base	BZMm1	<b>BZMm1-3/P</b>	CCB90073	Rear panel wiring drawer suitable for through-panel mounting and rail mounting
	BZM1	<b>BZM1-3/P</b>	CCB90074	
	BZM2	<b>BZM2-3/P</b>	CCB90075	
	BZM3	<b>BZM3-3/P</b>	CCB90076	
Withdrawable base	BZM3	<b>BZM3-3/W</b>	CCB90077	
<b>Front panel wiring</b>				
Plug-in base	BZMm1	<b>BZMm1-3/P(F)</b>	CCB90078	Front panel wiring suitable for back plate mounting and rail mounting
	BZM1	<b>BZM1-3/P(F)</b>	CCB90079	
	BZM2	<b>BZM2-3/P(F)</b>	CCB90080	
	BZM3	<b>BZM3-3/P(F)</b>	CCB90081	
Withdrawable base	BZM3	<b>BZM3-3/W(F)</b>	CCB90082	

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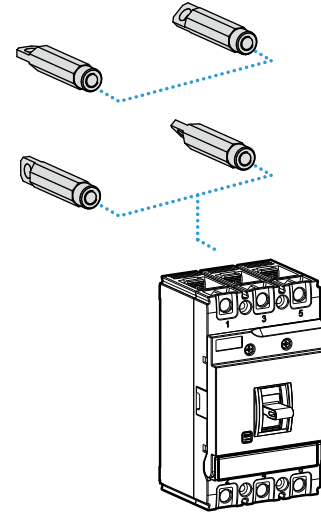
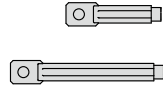
## Molded Case Circuit Breakers BZM Circuit Breaker's Accessories

### Rear Panel Wiring (BZM/F)

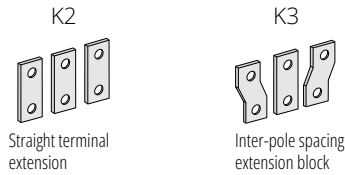
The circuit breaker is mounted on the back plate and can be wired behind the back plate with the rear wiring terminal.

- The rear connection terminals are available in two lengths;
- The busbar can be placed at multiple angles, such as horizontal, vertical or at a 45-degree angle to the horizontal.

Two lengths are available.



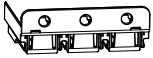
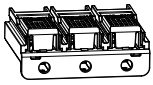
### Extension Wiring Block (BZM/K)



- Increase terminal spacing on the circuit breaker according to the incoming devices, to enhance inter-phase insulation.

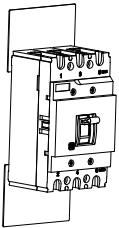
### Rear panel wiring / Extension Wiring Block

Accessories name	Frame	Part No.	Article No.	Remark
Rear panel wiring	BZMm1	<b>BZMm1-3/F</b>	CCB90065	Rear panel wiring drawer suitable for through-panel mounting and rail mounting
		<b>BZMm1-4/F</b>	CCB90066	
	BZM1	<b>BZM1-3/F</b>	CCB90067	
		<b>BZM1-4/F</b>	CCB90068	
	BZM2	<b>BZM2-3/F</b>	CCB90069	
		<b>BZM2-4/F</b>	CCB90070	
	BZM3	<b>BZM3-3/F</b>	CCB90071	
		<b>BZM3-4/F</b>	CCB90072	
Extension Wiring Block	BZMm1	<b>BZMm1-3/K2</b>	CCB90083	Front panel wiring suitable for back plate mounting and rail mounting
		<b>BZMm1-4/K2</b>	CCB90084	
		<b>BZMm1-3/K3</b>	CCB90085	
		<b>BZMm1-4/K3</b>	CCB90086	
	BZM1	<b>BZM1-3/K2(AX)</b>	CCB90087	
		<b>BZM1-4/K2(AX)</b>	CCB90088	
		<b>BZM1-3/K3(AX)</b>	CCB90089	
		<b>BZM1-4/K3(AX)</b>	CCB90090	
	BZM2	<b>BZM2-3/K2</b>	CCB90091	
		<b>BZM2-4/K2</b>	CCB90092	
		<b>BZM2-3/K3</b>	CCB90093	
		<b>BZM2-4/K3</b>	CCB90094	
	BZM3	<b>BZM3-3/K2 400A</b>	CCB90101	
		<b>BZM3-4/K2 400A</b>	CCB90102	
		<b>BZM3-3/K2 630A</b>	CCB90103	
		<b>BZM3-4/K2 630A</b>	CCB90104	
		<b>BZM3-3/K3 400A</b>	CCB90105	
		<b>BZM3-4/K3 400A</b>	CCB90106	
	<b>BZM3-3/K3 630A</b>	CCB90107		
	<b>BZM3-4/K3 630A</b>	CCB90108		



### Terminal Cover

Accessories name	Frame	Part No.	Article No.	Remark
Terminal cover	BZMm1	<b>BZMm1-3/FP</b>	CCB90127	Each set include: one for incoming end and one for outgoing end
		<b>BZMm1-4/FP</b>	CCB90131	
	BZM1	<b>BZM1-3/FP</b>	CCB90128	
		<b>BZM1-4/FP</b>	CCB90132	
	BZM2	<b>BZM2-3/FP</b>	CCB90129	
		<b>BZM2-4/FP</b>	CCB90133	
	BZM3	<b>BZM3-3/FP</b>	CCB90130	
		<b>BZM3-4/FP</b>	CCB90134	



### Insulation Back Plate

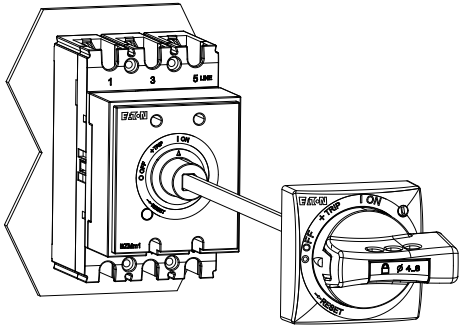
When the circuit breaker adopts fixed front panel wiring, an insulated back plate can be used to increase the creepage distance between the wiring copper bar and back plate.

Accessories name	Frame	Part No.	Article No.	Remark
Insulation back plate	BZMm1	<b>BZMm1-3/IBP</b>	CCB90135	Each set includes 2 pieces
		<b>BZMm1-4/IBP</b>	CCB90139	
	BZM1	<b>BZM1-3/IBP</b>	CCB90136	
		<b>BZM1-4/IBP</b>	CCB90140	
	BZM2	<b>BZM2-3/IBP</b>	CCB90137	
		<b>BZM2-4/IBP</b>	CCB90141	
	BZM3	<b>BZM3-3/IBP</b>	CCB90138	
		<b>BZM3-4/IBP</b>	CCB90142	

# 1.5

## Molded Case Circuit Breakers BZM Circuit Breaker's Accessories

### Manual Operator (BZM)



The rotary handle operator features a unique design and driving mechanism. By rotating the handle, the molded case circuit breaker can be closed, opened and re-tripped;

#### Features of BZM Series Manual Operator:

- The cabinet door cannot be opened after the circuit breaker is closed, that is, the door is interlocked
- The handle can be used with the relevant drawer cabinet, and offers interlocking with the drawer unit's cabinet
- If the rotary handle operator is faulty when in closed status, the cabinet door can be opened by using the emergency unlocking device on the operating handle

#### Direct Rotary Handle

To distinguish emergency level, the handles are available in two colors:

- Standard: gray + black
- Emergency: yellow + red



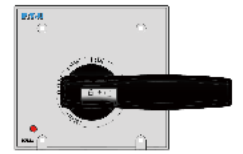
BZMm1



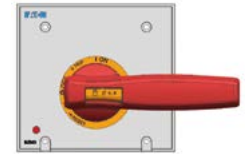
BZM1



BZM2



BZM3



#### Direct Rotary Handle

To distinguish emergency level, the handles are available in two colors:

- Standard: gray + black
- Emergency: yellow + red



BZMm1



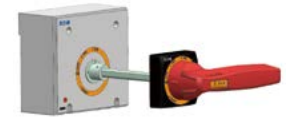
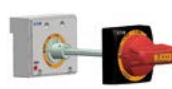
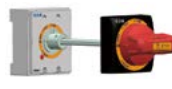
BZM1

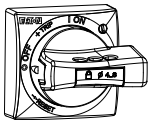


BZM2



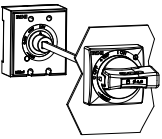
BZM3





### Direct Rotary Handle

Accessory name	Frame	Model	Article No.	Remark
Direct rotary handle	Standard	BZMm1	<b>BZMm1/RH</b>	CCB90111
		BZM1	<b>BZM1/RH</b>	CCB90112
		BZM2	<b>BZM2/RH</b>	CCB90113
		BZM3	<b>BZM3/RH</b>	CCB90114
	Emergency	BZMm1	<b>BZMm1/RHR</b>	CCB90115
		BZM1	<b>BZM1/RHR</b>	CCB90116
		BZM2	<b>BZM2/RHR</b>	CCB90117
		BZM3	<b>BZM3/RHR</b>	CCB90118



### Door Rotary Handle

Accessory name	Frame	Model	Article No.	Remark	
Door Rotary Handle	Standard	BZMm1	<b>BZMm1/DRH</b>	CCB90119	A 200mm connecting rod is equipped as standard
		BZM1	<b>BZM1/DRH</b>	CCB90120	
		BZM2	<b>BZM2/DRH</b>	CCB90121	
		BZM3	<b>BZM3/DRH</b>	CCB90122	
	Emergency	BZMm1	<b>BZMm1/DRHR</b>	CCB90123	
		BZM1	<b>BZM1/DRHR</b>	CCB90124	
		BZM2	<b>BZM2/DRHR</b>	CCB90125	
		BZM3	<b>BZM3/DRHR</b>	CCB90126	



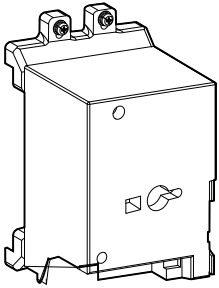
### Connecting Rod

Accessory name	Frame	Model	Article No.	Remark
500mm long connecting rod	BZMm1/BZM1/BZM2	<b>BZMm1/1/2-500</b>	CCB90109	A 500mm long connecting rod requires an additional standard manual operating toolki for use
	BZM3	<b>BZM3/4-500</b>	CCB90110	

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## Molded Case Circuit Breakers BZM Circuit Breaker's Accessories

### Motor Operator (BZM/CD)



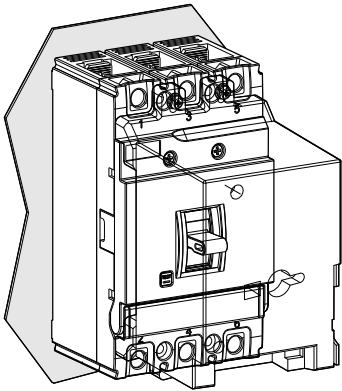
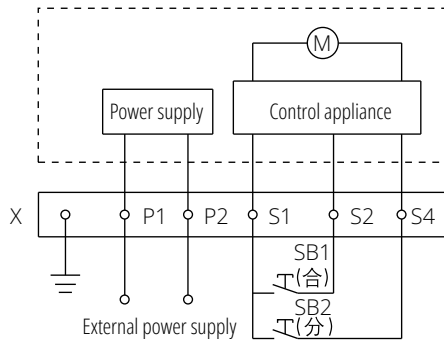
The motor operator is used to remotely control the closing and opening of the circuit breaker. It is composed of an energy storage spring, an opening coil and a closing coil.

#### The motor operator offers:

- Selectable manual or automatic operation mode
- The manual driving handle is located on the front of the face cover

#### BZM/CD Type Motor Operator Wiring Diagram

(in the dotted grid is the wiring diagram of the circuit breaker part)



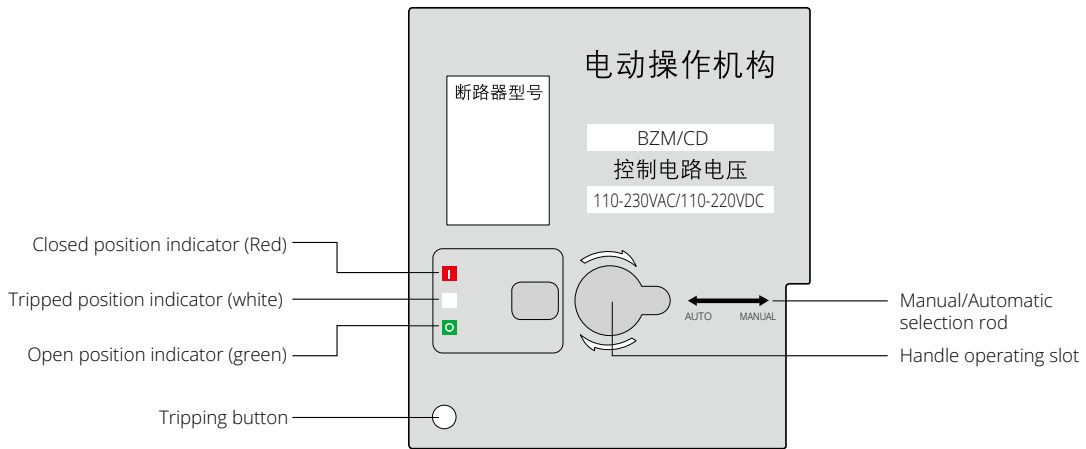
#### Manual Operation

- Switch the toggle switch to the "Manual" position and the internal power will automatically turn off
- Put the manual driving handle into the handle operating slot on the front of the motor operator, and turn it clockwise
- Counterclockwise rotation is prohibited

#### Motor Operation

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

Motor Operator Outlines



Starting Current, Power and Service Life of BZM/CD Type Motor Operator

Circuit breaker model.	Motor operator model	Starting current (A)	Response time (ms)		Power loss (w)	Life (time)
			Close	Open		
BZMm1	CD	≤ 0.5	310	200	14	14000
BZM1	CD	≤ 0.5	310	200	14	14000
BZM2	CD	≤ 0.5	310	200	14	10000
BZM3	CD	≤ 0.5	500	350	14	10000

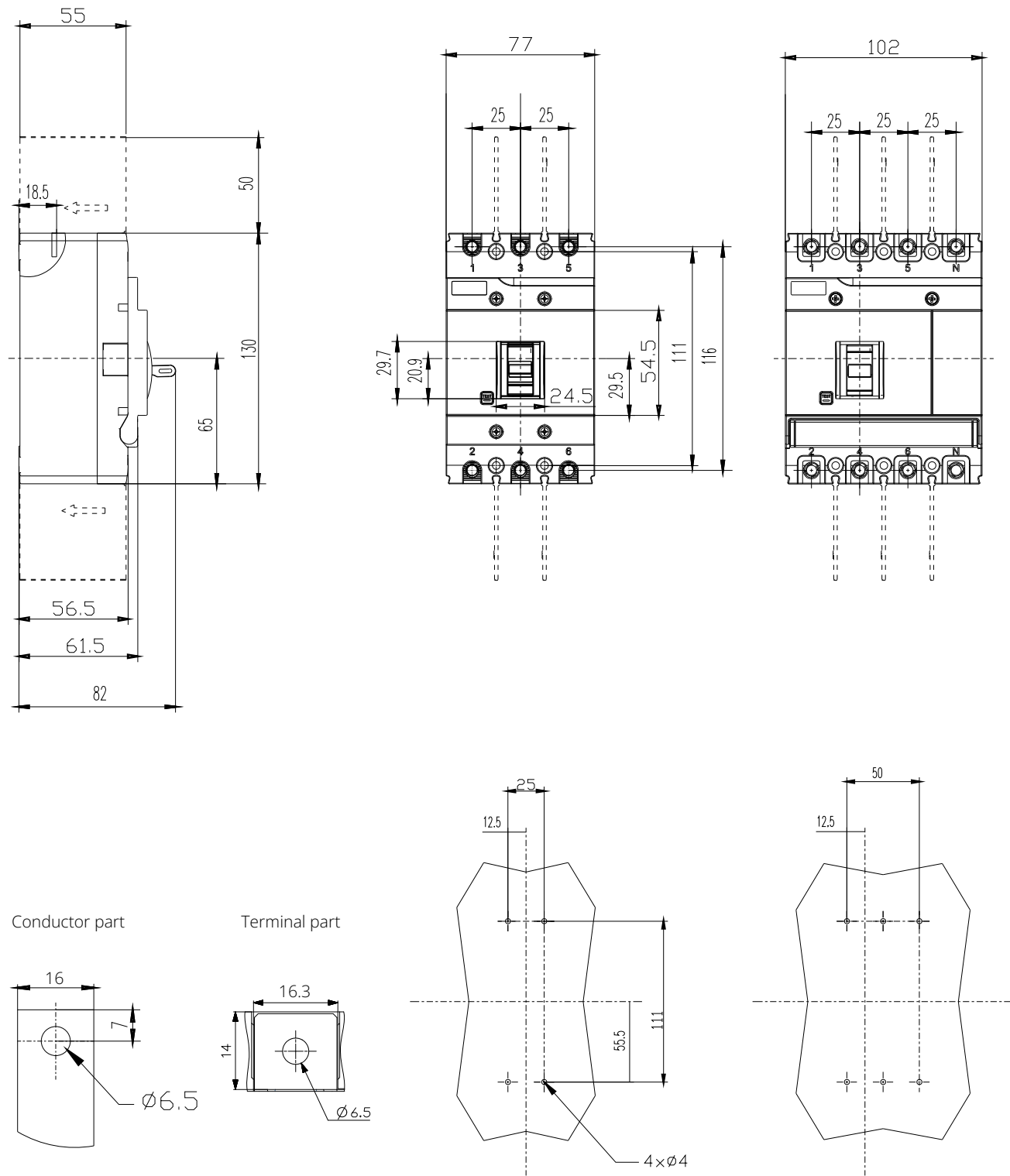
Motor Operator

Accessory name	Frame	Part No.	Article No.	Remark
Motor Operator	BZMm1	BZMm1/CD3 AC230V/DC220V	CCB90050	
		BZMm1/CD3 AC/DC110V	CCB90051	
		BZMm1/CD3 DC24V	CCB90052	
	BZM1	BZM1/CD3 400V	CCB90053	
		BZM1/CD3 AC230V/DC220V	CCB90054	
		BZM1/CD3 AC/DC110V	CCB90055	
		BZM1/CD3 DC24V	CCB90056	
	BZM2	BZM2/CD3 400V	CCB90057	
		BZM2/CD3 AC230V/DC220V	CCB90058	
		BZM2/CD3 AC/DC110V	CCB90059	
	BZM3	BZM2/CD3 DC24V	CCB90060	
		BZM3/CD3 400V	CCB90061	
BZM3/CD3 AC230V/DC220V		CCB90062		
		BZM3/CD3 AC/DC110V	CCB90063	
		BZM3/CD3 DC24V	CCB90064	

# 1.6

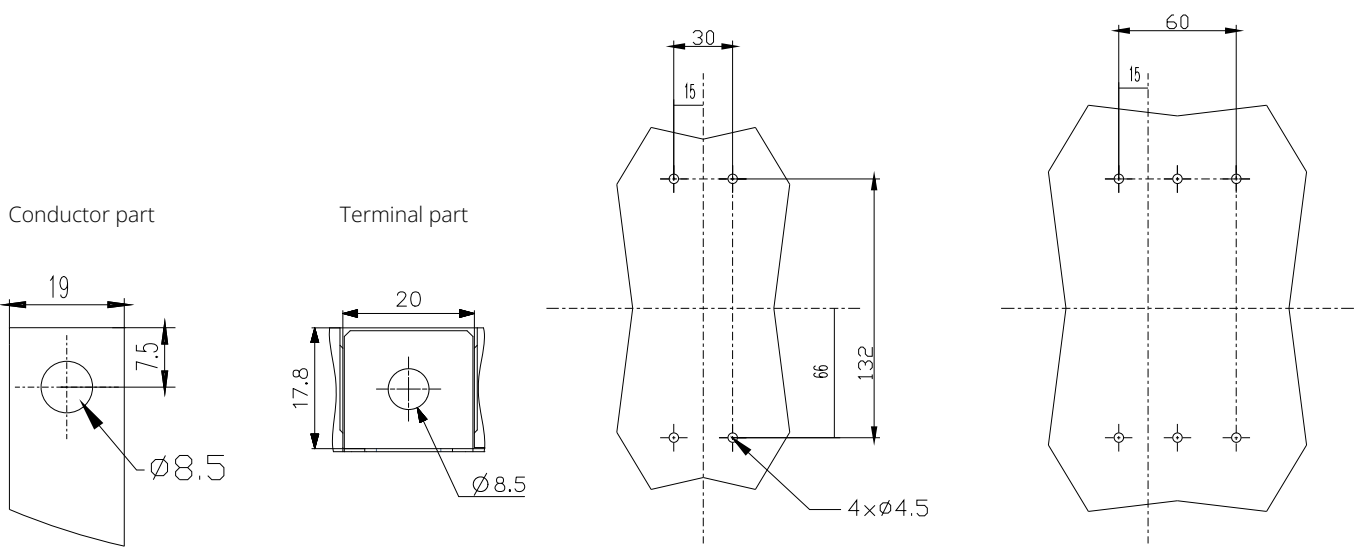
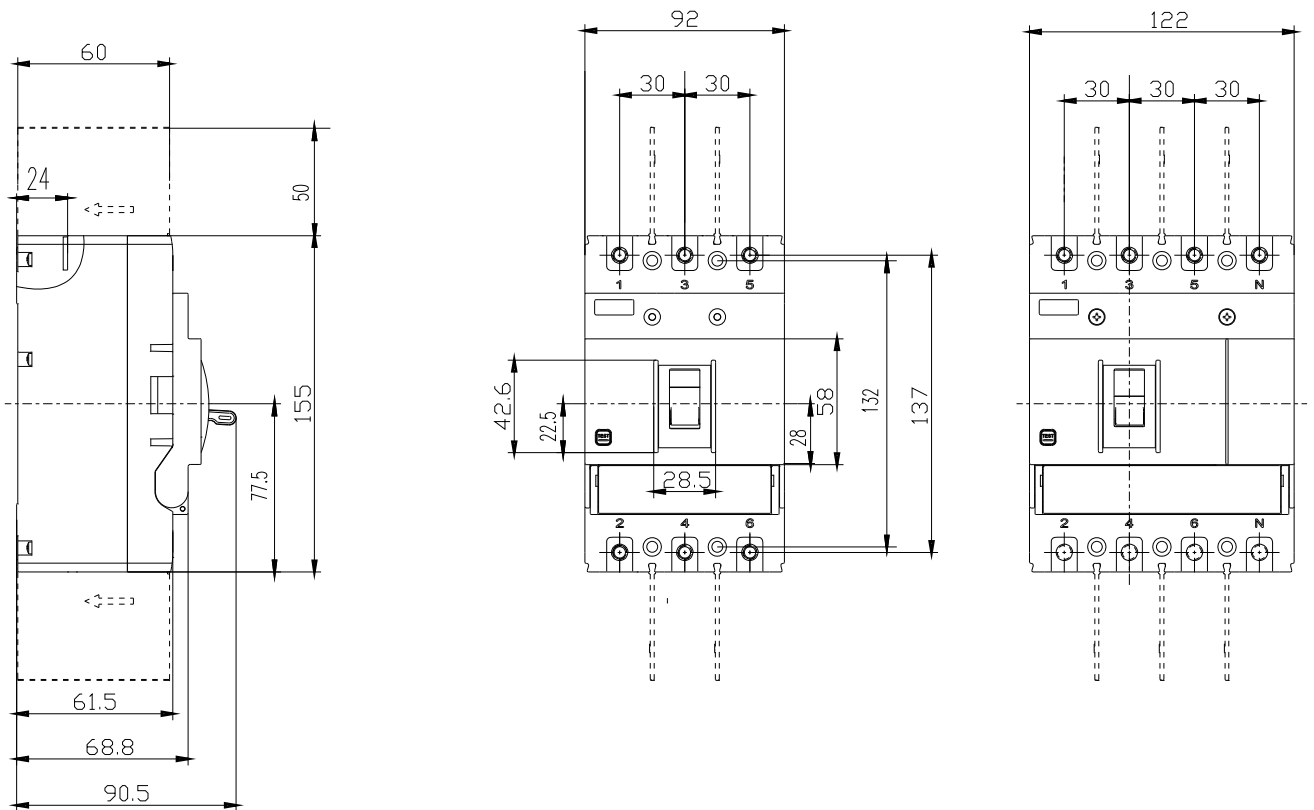
## Molded Case Circuit Breakers BZM Dimensions

### Basic Device of BZMm1-AX/MX





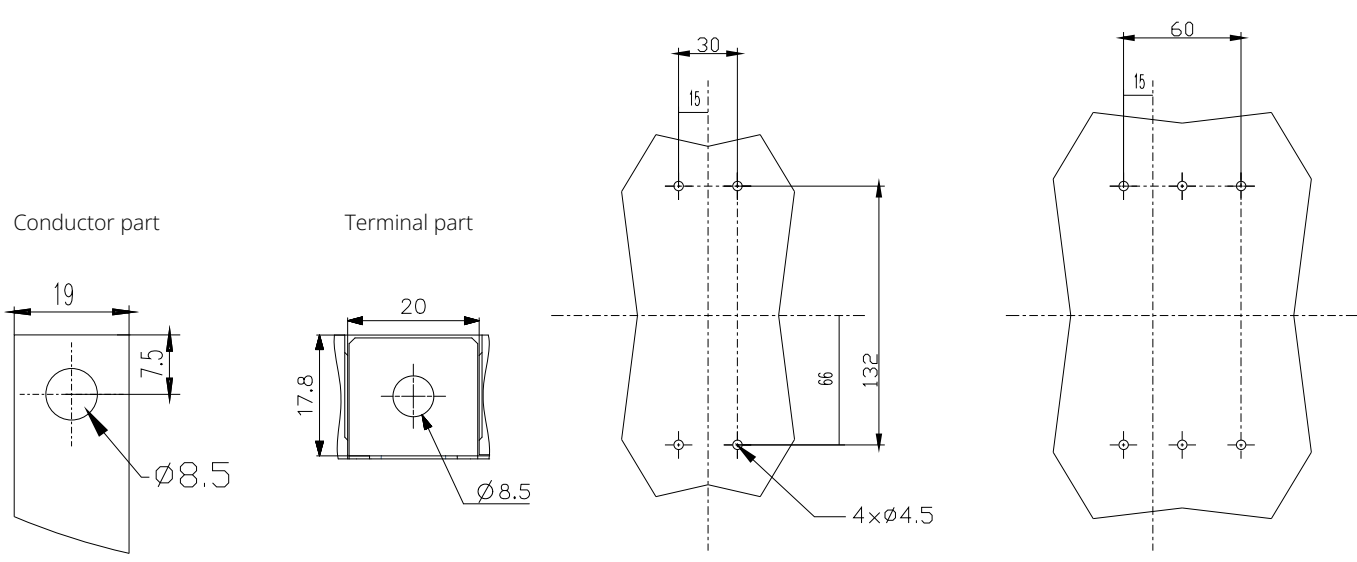
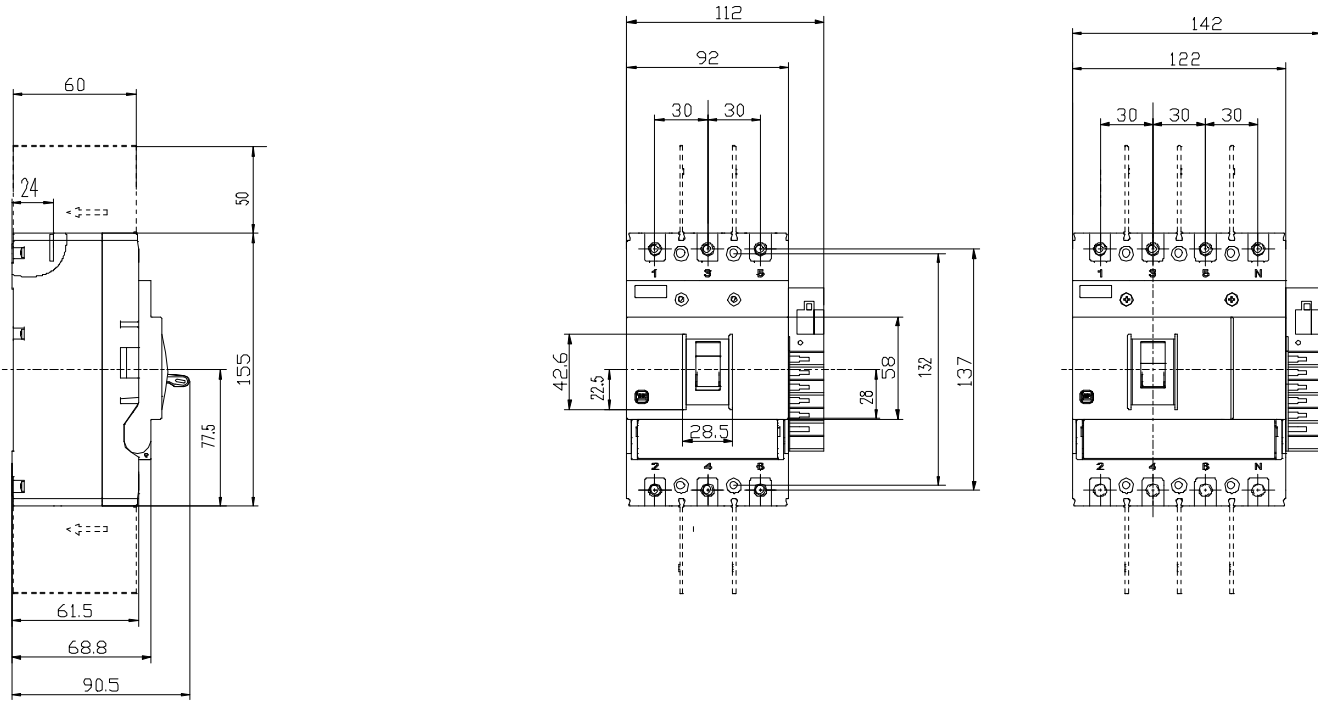
Basic Device of BZM1-AX/MX/RS



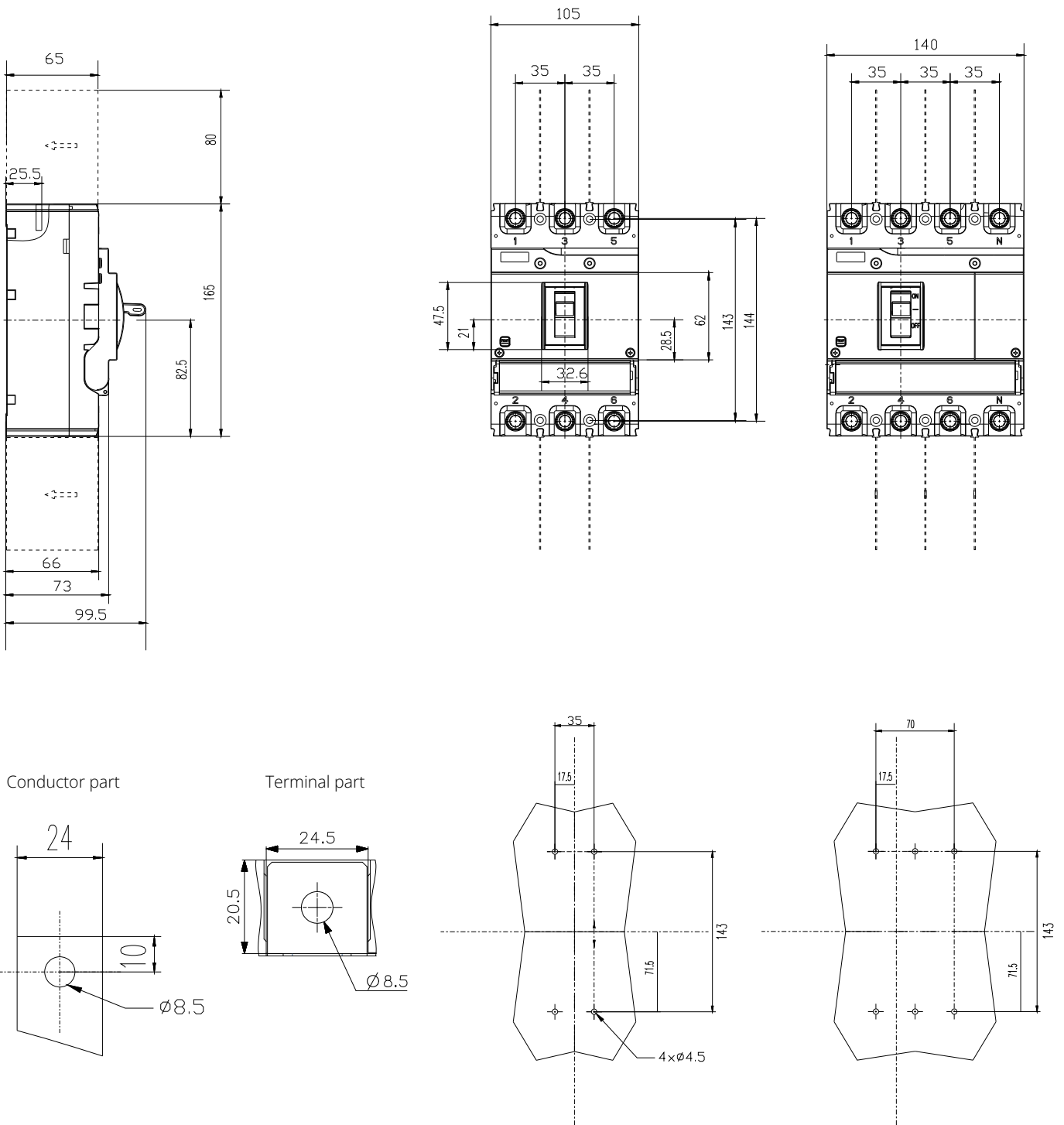
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## Molded Case Circuit Breakers BZM Dimensions

### Basic Device of BZM1-RN



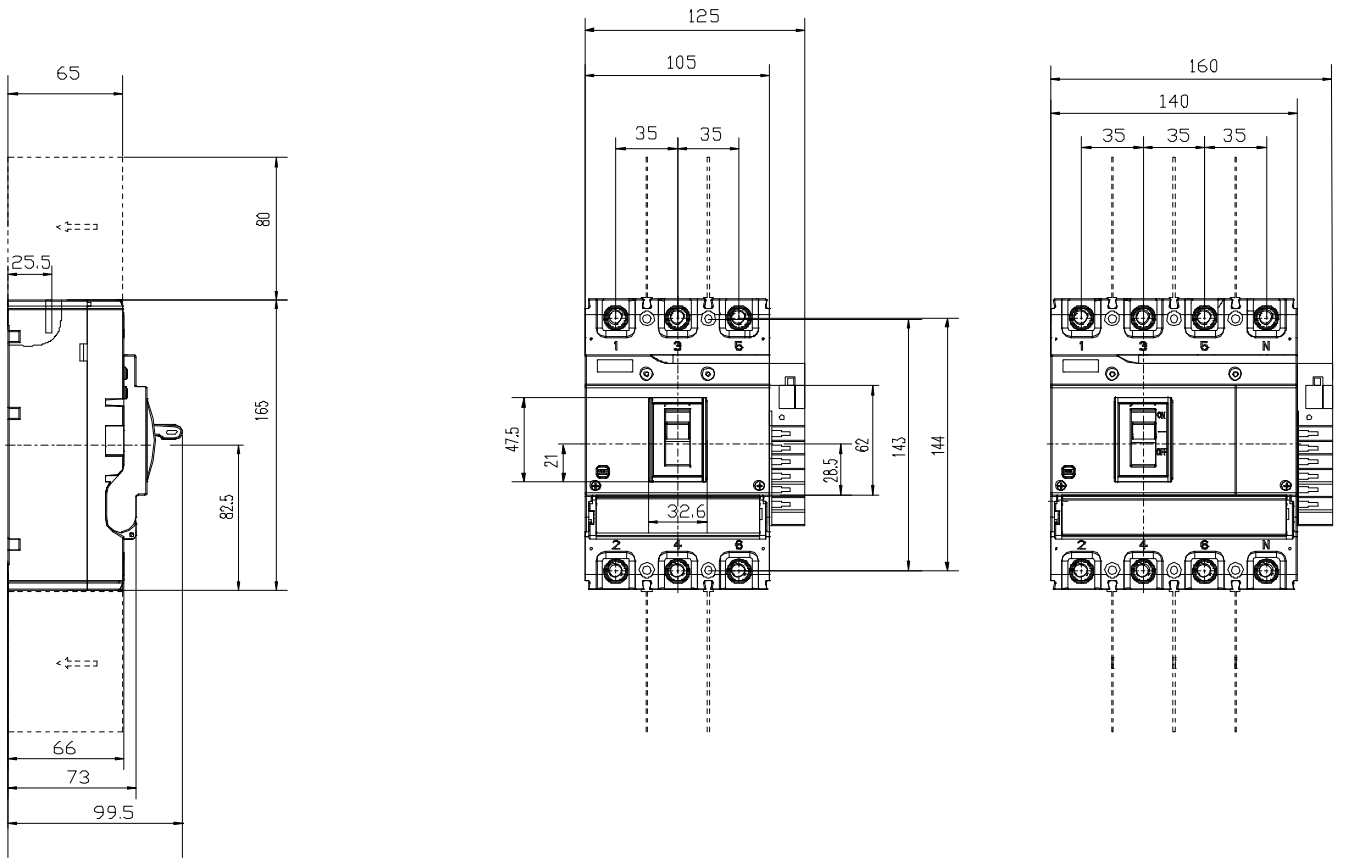
Basic Device of BZM2-AX/MX/RS



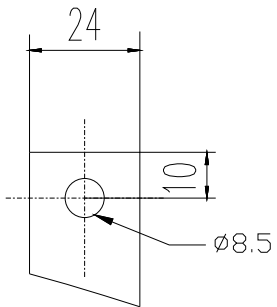
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## Molded Case Circuit Breakers BZM Dimensions

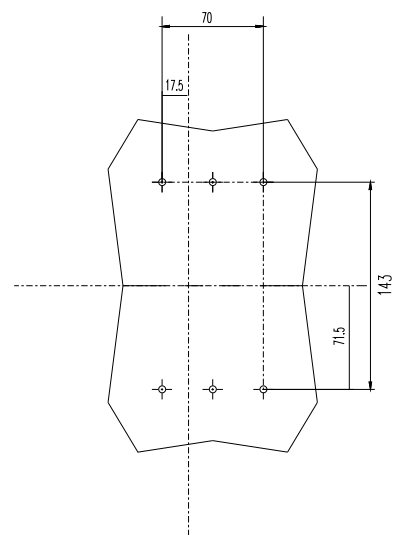
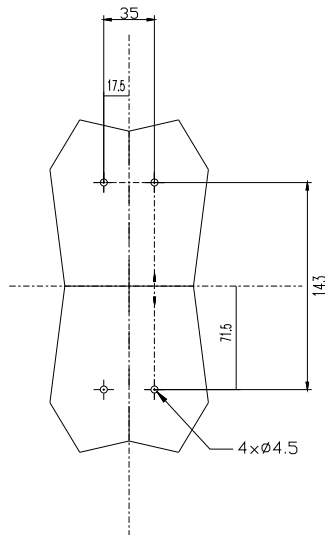
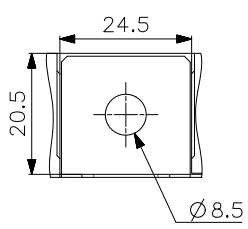
### Basic Device of BZM2-RN



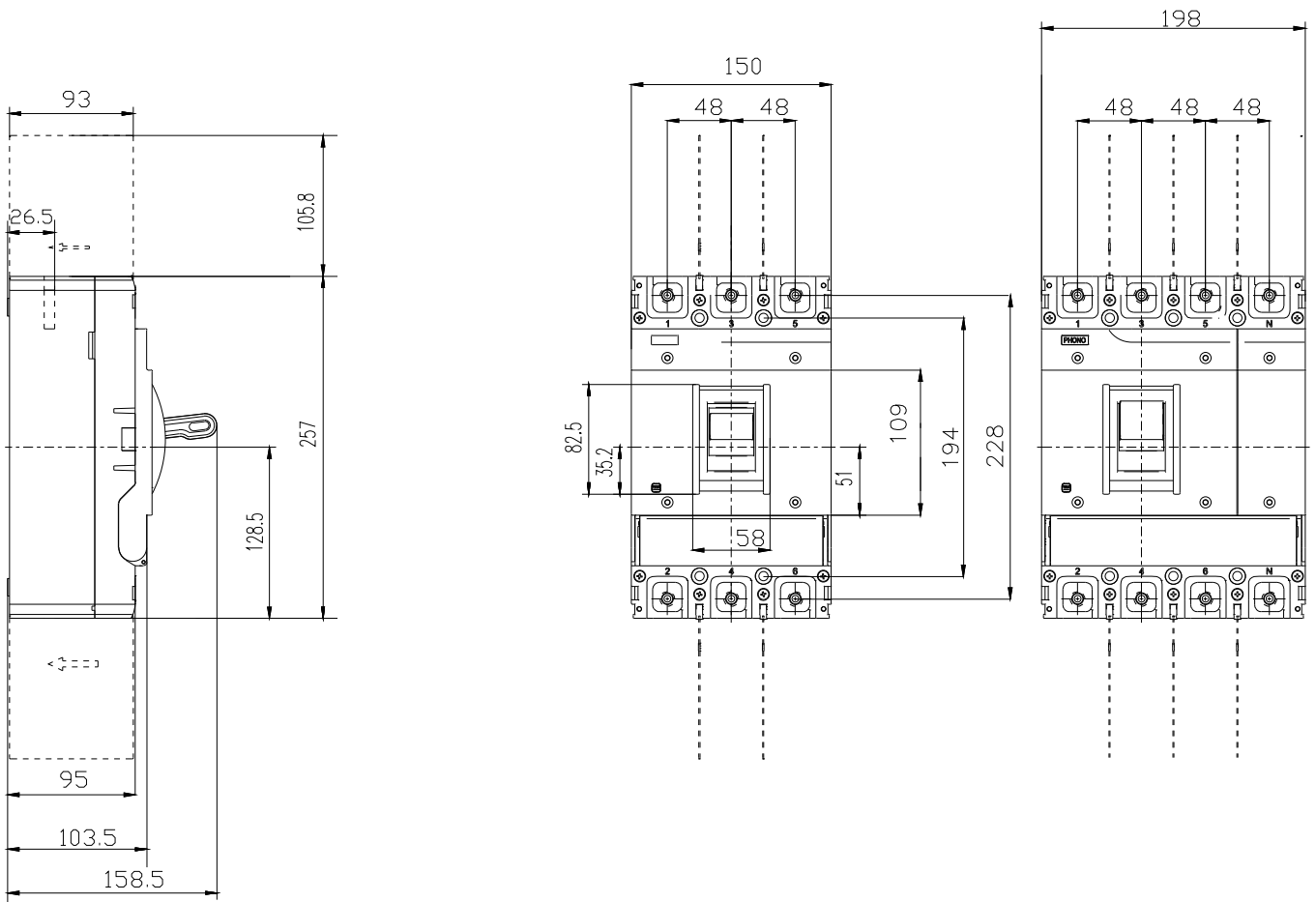
Conductor part



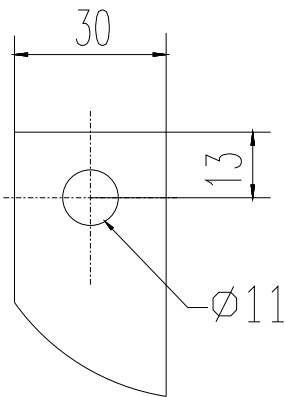
Terminal part



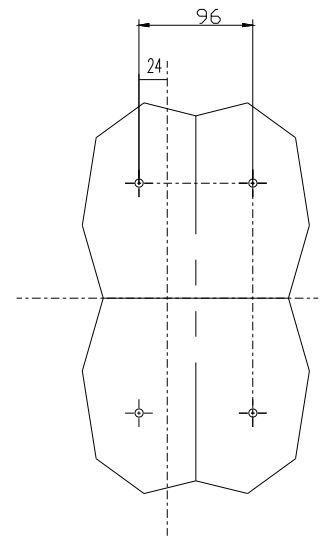
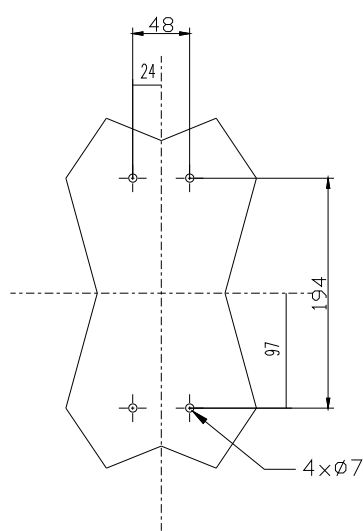
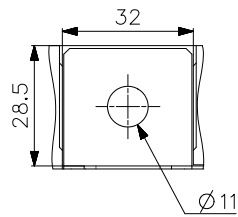
Basic Device of BZM3-AX/MX/RS



Conductor part



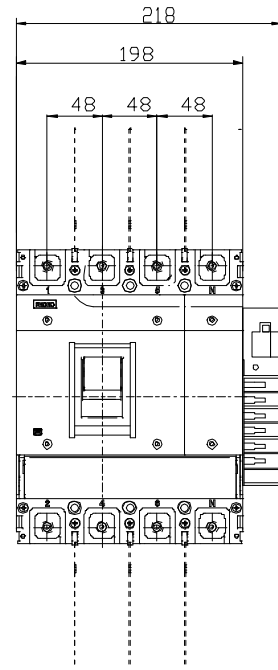
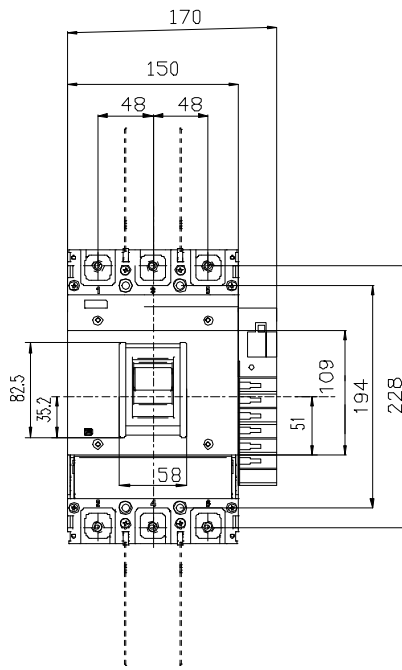
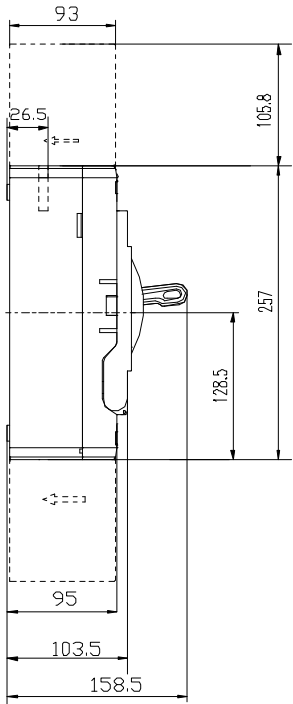
Terminal part



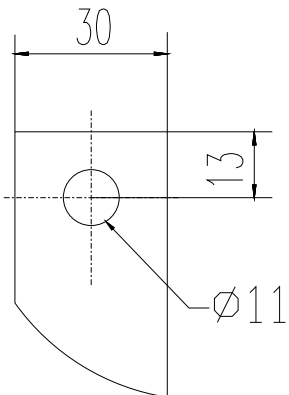
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## Molded Case Circuit Breakers BZM Dimensions

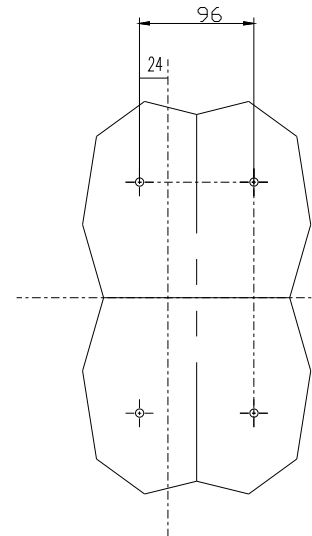
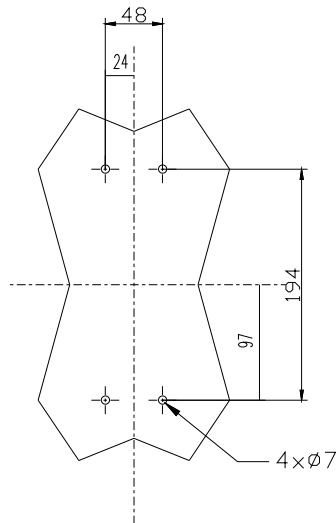
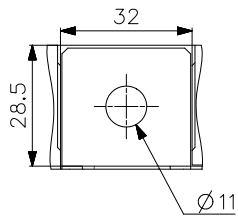
### Basic Device of BZM3-RN



Conductor part



Terminal part

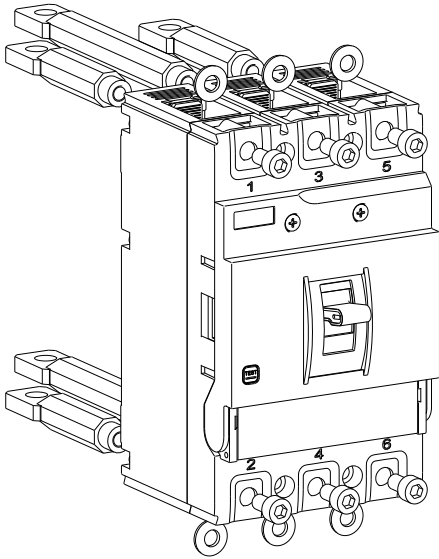




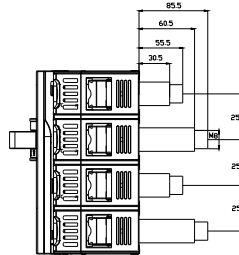
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## Molded Case Circuit Breakers BZM Dimensions

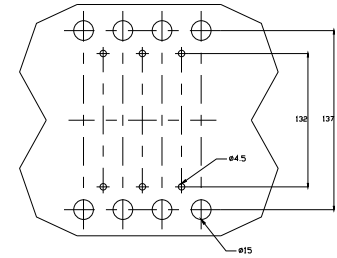
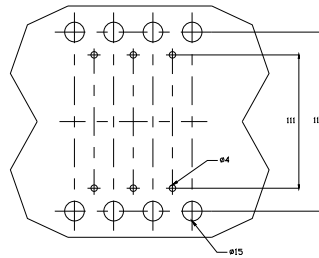
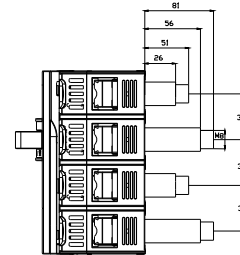
### Rear Panel Wiring and Mounting



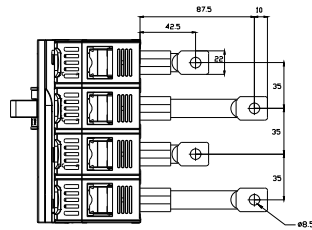
BZMm1



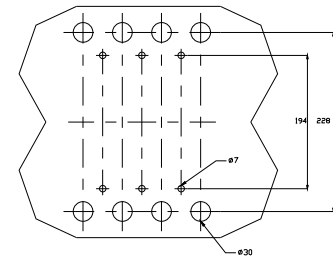
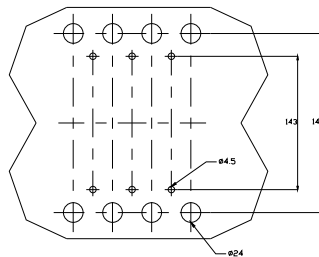
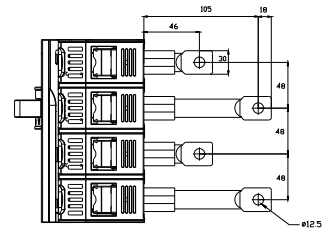
BZM1



BZM2



BZM3





Plug-in Wiring and Mounting

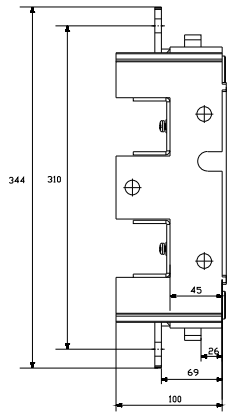
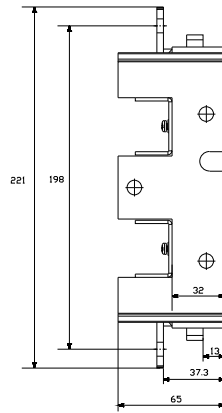
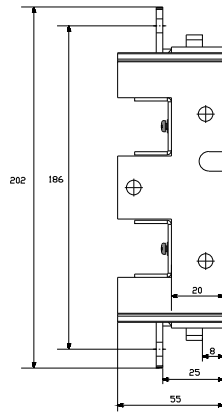
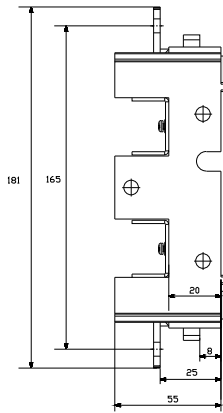
BZMm1

BZM1

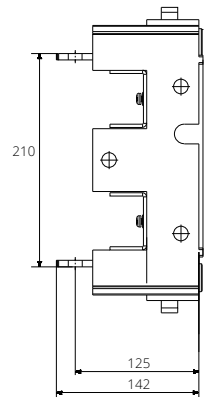
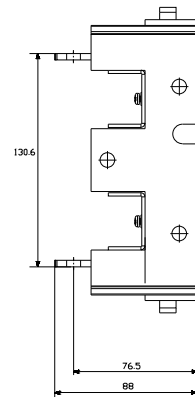
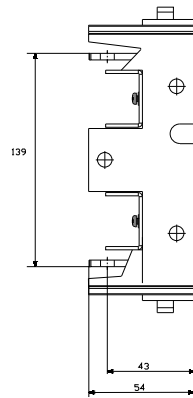
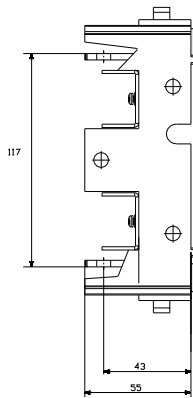
BZM2

BZM3

Front panel



Rear panel

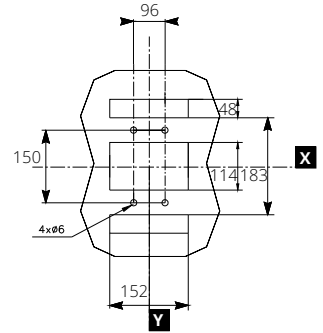
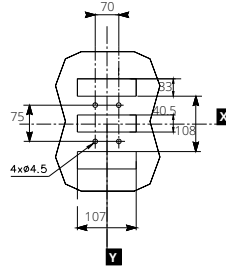
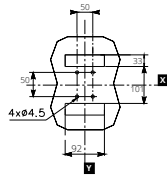
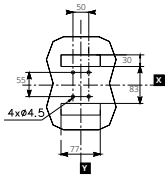
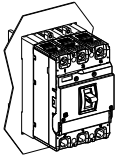


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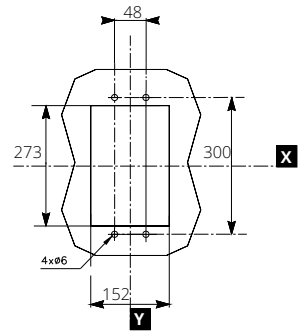
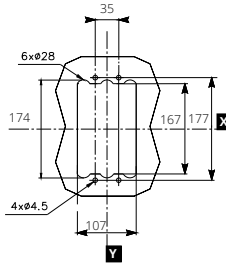
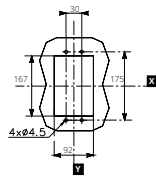
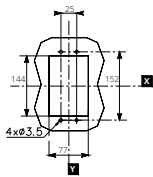
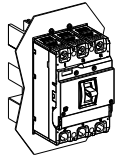
## Molded Case Circuit Breakers BZM Dimensions

### Plug-in Wiring and Mounting

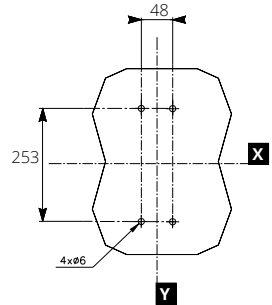
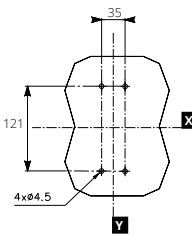
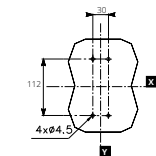
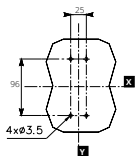
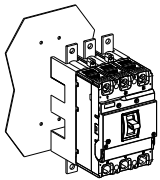
Through-panel mounting (rear panel wiring)



Big cutout through-panel mounting

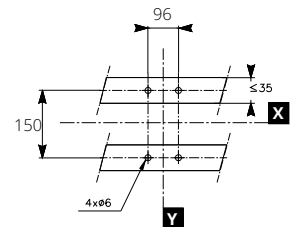
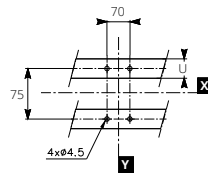
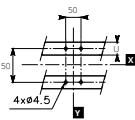
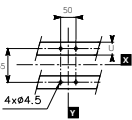
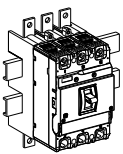


Back plate mounting

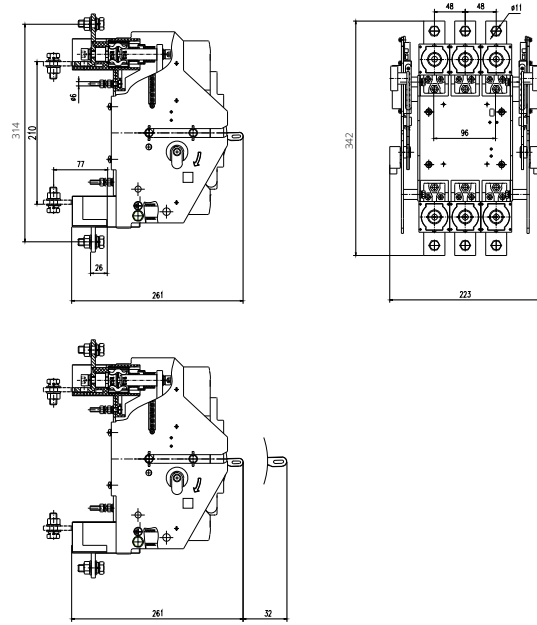
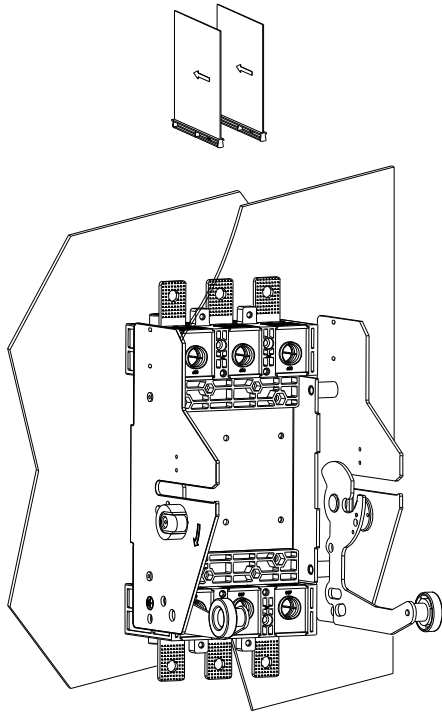


Note: An insulation partition is needed between the mounting back plate and plug in base.

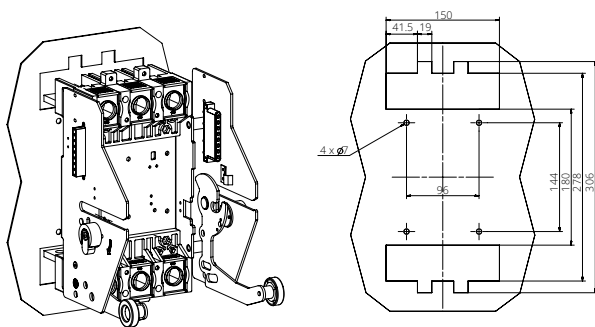
DIN Rail Mounting



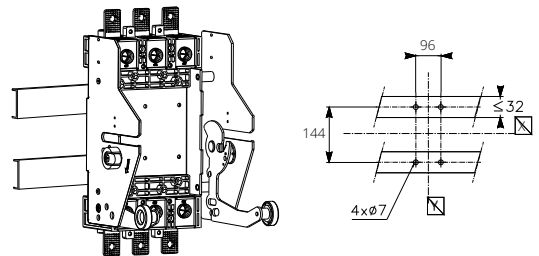
Withdrawable Wiring and Mounting



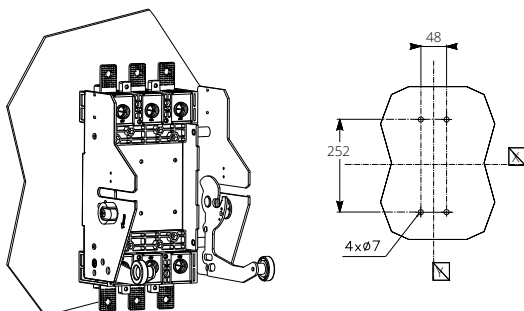
Through-panel mounting



DIN rail mounting



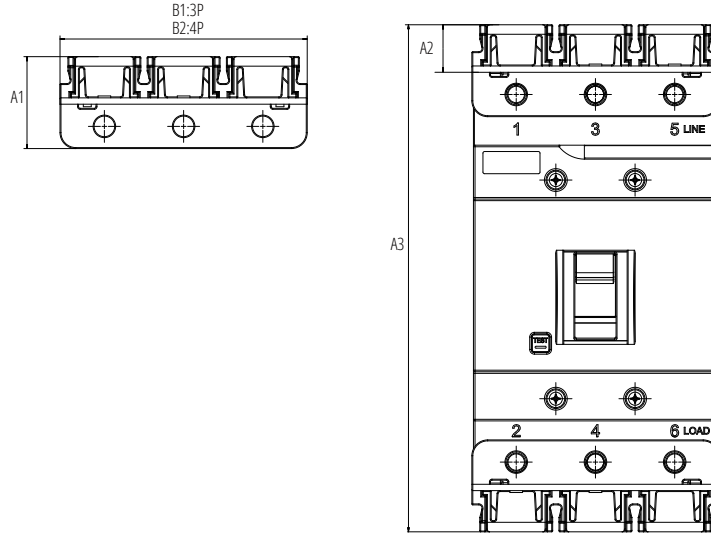
Back plate mounting



# 1.6

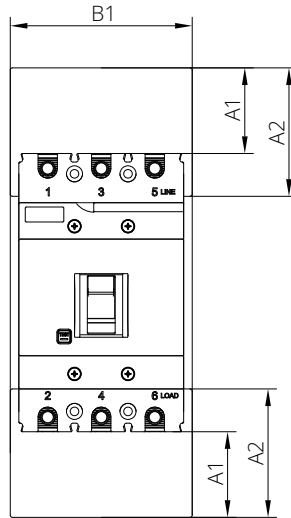
## Molded Case Circuit Breakers BZM Dimensions

### Terminal Cover



Model	A1	A2	A3	B1	B2
BZMm1	29	15	145	78	103
BZM1	41.7	22.5	177.5	92	122
BZM2	43.5	22	187	105	140
BZM3	76.7	45.2	302.2	150	198.3

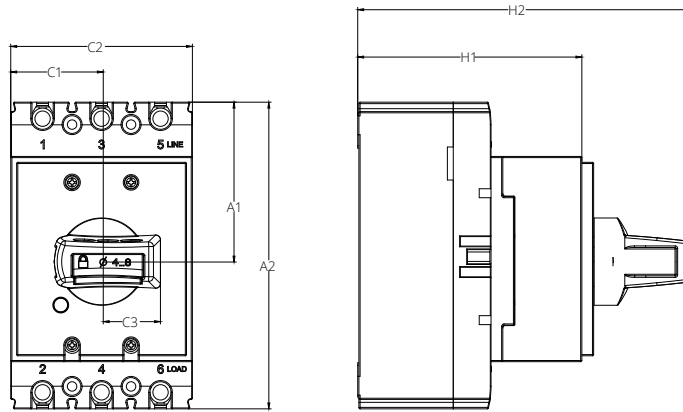
### Insulation Back Plate



Model	No. of poles	B1	A1	A2
BZMm1	3P	85	40	60
	4P	100		
BZM1	3P	100	35.5	60
	4P	130		
BZM2	3P	115	41	63
	4P	150		
BZM3	3P	160	47	89
	4P	210		

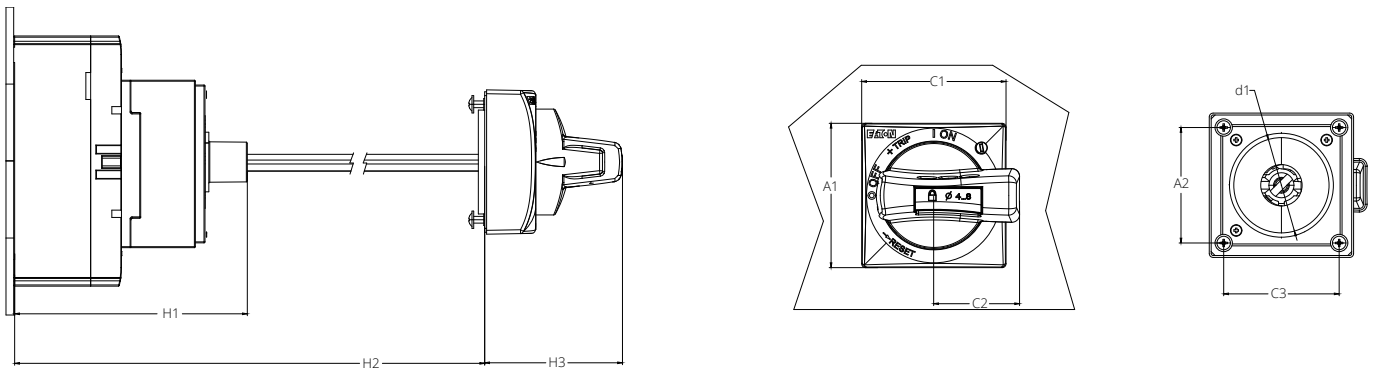
**BZM Manual Operator Dimensions**

**Direct Rotary Handle**



Model	C1	C2	C3	A1	A2	H1	H2
BZMm1	38.5	77	24.8	65.5	130	100	141
BZM1	46	92	24.8	72	155	108	149
BZM2	52.5	155	24.8	81.5	165	115.5	156.5
BZM3	75	150	136.4	123.5	257	176.5	245.8

**Door Rotary Handle**



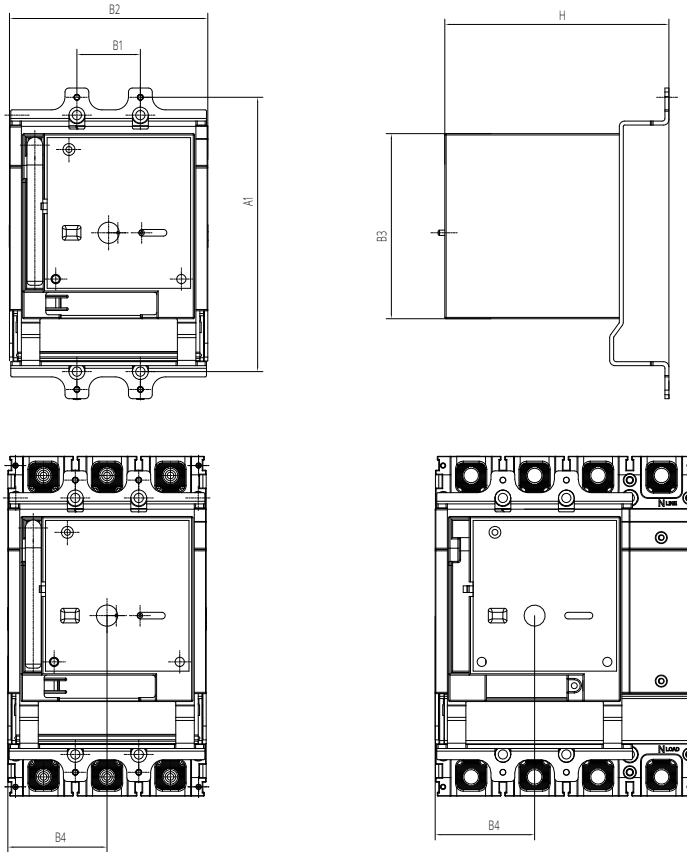
Model	A1	A2	C1	C2	C3	d1	H1	H2	H3
BZMm1	75	60	75	44.5	60	56	122	281.5	72
BZM1	75	60	75	44.5	60	56	130	290	72
BZM2	75	60	75	44.5	60	56	134.5	300.5	72
BZM3	75	60	75	136.4	60	56	199	360	92

Note: The extension rod is 200mm long as standard. The dimensions in the above table are measured against the 200mm reference.

# 1.6

## Molded Case Circuit Breakers BZM Dimensions

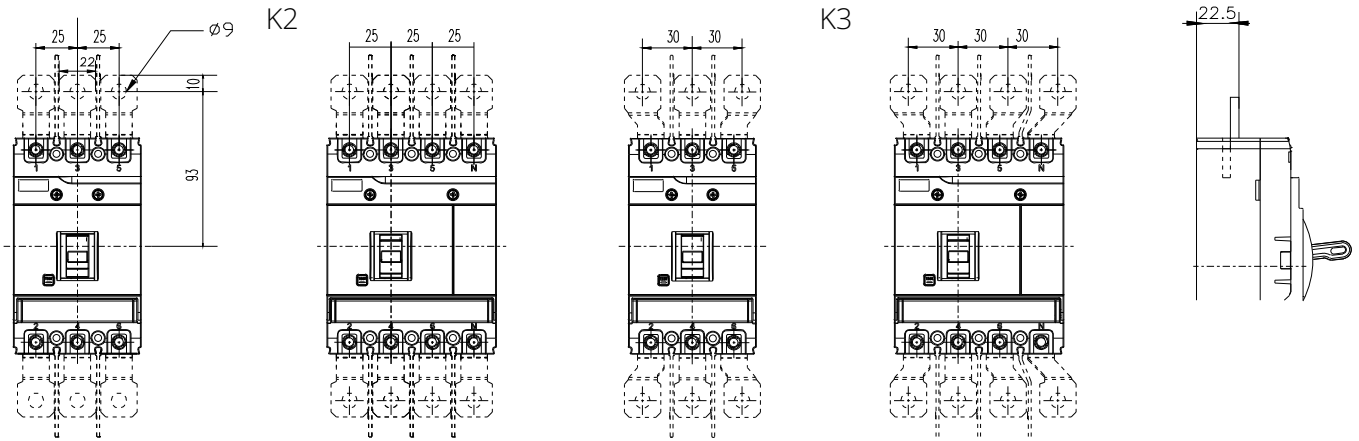
### BZM Motor Operator Dimensions



Circuit breaker model for use with	Motor operator	A1	B1	B2	B3	H	B4
BZMm1	BZMm1/CD3	111	25	74	102	95	38.5
BZM1	BZM1/CD3	132	30	90.5	116	95	46
BZM2	BZM2/CD3	143	35	90.5	116	97	52.5
BZM3	BZM3/CD3	221	48	130	140	180.5	75

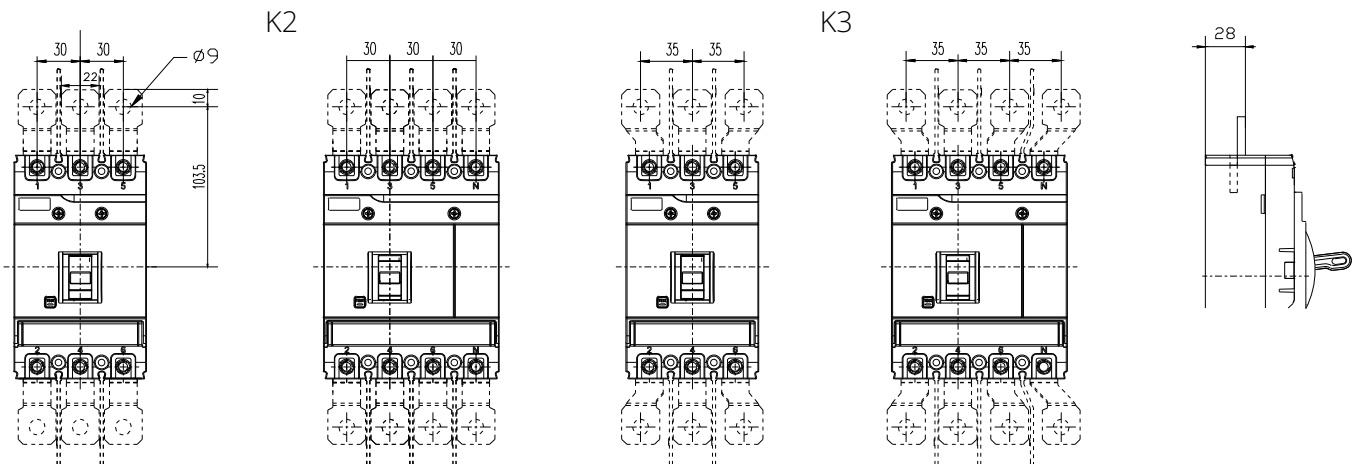
**BZMm1-AX Extension Block**

(Width x Thickness: 22 x 4mm)



**BZM1-AX Extension Block**

(Width x Thickness: 22 x 4mm)

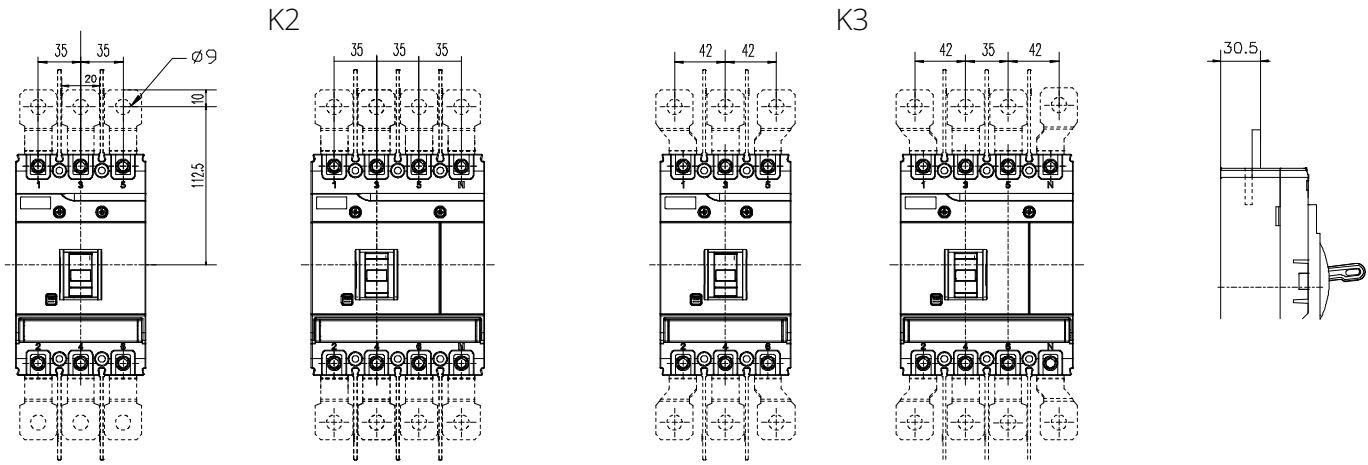


# 1.6

## Molded Case Circuit Breakers BZM Dimensions

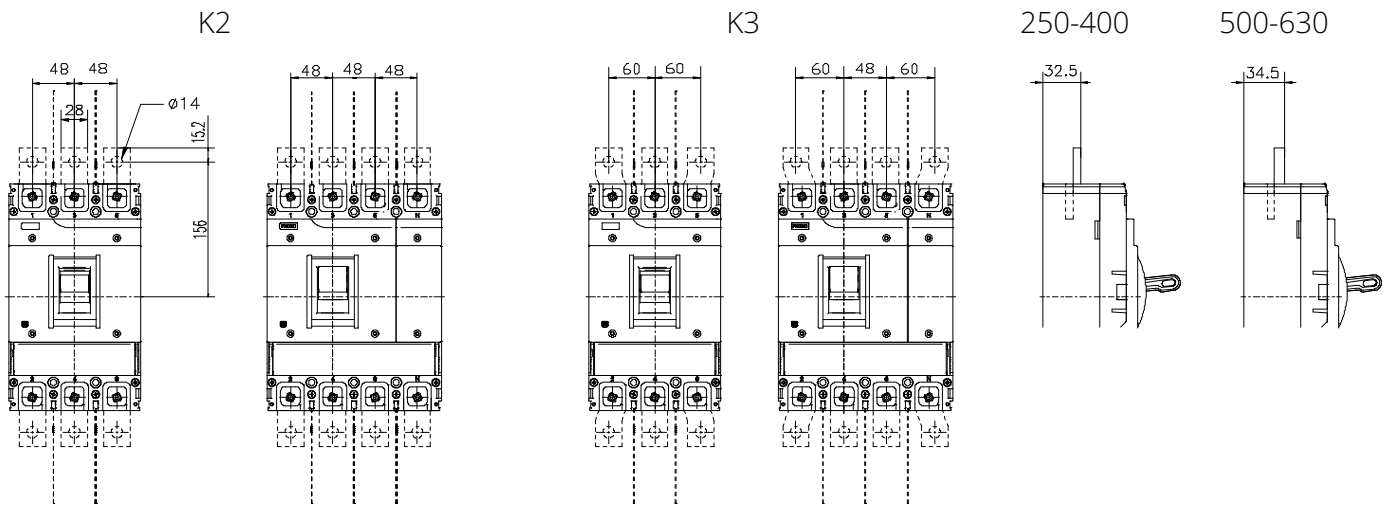
### BZM2-AX / MX Extension Block

(Width x Thickness: 20 x 5mm)



### BZM3-AX / MX Extension Block

(Width x Thickness: 250-400A: 28 x 6mm; 500-630A: 28 x 8mm)





Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power - today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy, helping to solve the world's most urgent power management challenges, and doing what's best for our stakeholders and all of society.

Eaton was founded in 1911 and has been listed on the New York Stock Exchange since 1923. We reported revenues of \$20.8 billion in 2022 and serve customers in more than 170 countries. Eaton entered the Chinese market in 1993 and has grown significantly since then. In 2004, Eaton moved its Asia-Pacific headquarters from Hong Kong to Shanghai. Today, Eaton has nearly 9,000 employees and 20 manufacturing facilities in China. Eaton is marking its 100th anniversary of being listed on the New York Stock Exchange, and its 30th anniversary of being in Chinese market.

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**Eaton**  
Asia Pacific Headquarters  
No.3, Lane 280, Linhong Road,  
Shanghai 200335, P.R. China  
[Eaton.com.cn](http://Eaton.com.cn)

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Customer Service Center  
Contact: 800-988-1203  
400-921-0826  
Working hours: 09:00-17:00 (Mon-Fri)  
Technical service email:  
[TechCareCPCD@Eaton.com](mailto:TechCareCPCD@Eaton.com)



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