OMICRON

OMICRON

COMPANY PROFILE

Is one of the national new high-tech enterprises integrated of researching, producing and selling water-proof electric, low-voltage electric and new energy electric products.

Established in 1992,OMICRON now is gradually becoming the influential electric manufacturer in the World after many years well development.With a great brand effect,OMICRON has the completed sales and service network with its products been exported to all over the world like Europe. Australia. American. Africa. Oceania. South east of Asia, and district of HongKong, Macaw,Turkey and Taiwan. OMICRON is awarded the title of Famous Export Brand.

OMICRON now has the factory area 60000 m2 and workers more than 600, including over 10 senior engineers, 30 professional technicists and 30 senior executives. Products pass the certification of CE, CB, UL, VDE, TUV, KEMA, SAA, SEMKO, ROHS, and China CCC as well as quality management system such as ISO9001,ISO14001,ISO45001,ISO5001.

Cooperated with domestic and foreign R&D institutions,OMICRON, successively developed more than 100 independent intellectual properties; some of them were successfully awarded the national patent for invention and utility models as its well performance.OMICRON now has been selected as provincial technical research and development center and patent demonstration enterprise by government.

OMICRON always adheres to the enterprise principle of "Scientific management, independent Innovation, Coordinating Collaboration and Cultural Brand", keep faith of "moral first" and fulfill the core value of "double-win cooperation with customers, creating profit for company owners, getting rich together with workers, building harmony for society" and fight for the mission of"make the dream of world famous electrical brand come true".

CERTIFICATE

Contents

OM1 Mini Circuit Breaker

Application

OM13P60C63 series miniature circuit breaker(hereinafter called MCB) is suitable for operating in the distribution line of AC 50Hz, rated voltage up to 400V, rated current up to 63A to protect electric equipment against over-current, also used to switch the line non-frequently. This product has such advantage as reliable performance, accurate protective characteristics and small size, especially suitable for industrial an commercial lighting lines. This MCB complies with GB/T 10963.1 standard “Electrical accessories: Circuit- breakers for over-current protection for household and similar installations-Part 1: Circuit-breakers for AC operation”.

Model and Meanings

OM 1 - 3P / □ / □ □

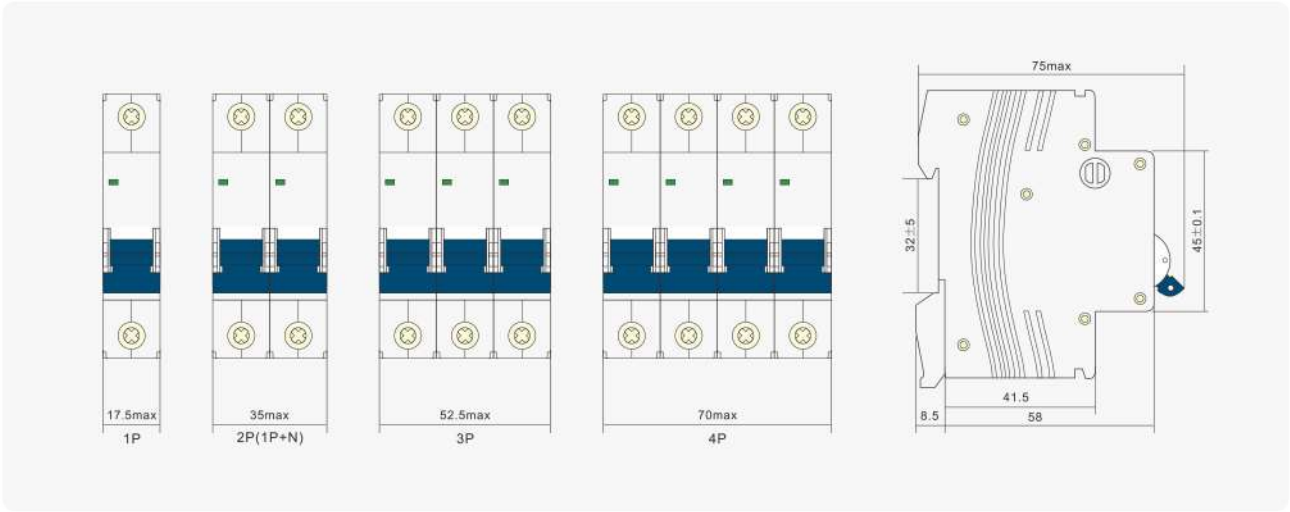
- Rated current
- Tripping modes/curves(B,C or D)
- Pole number(Neutral pole:N)
- Pole number
- Design code
- Enterprise code

OM1 Mini Circuit Breaker

Main technical specifi cations

1. Rated frame current Inm: 63A
2. Rated voltage Ue: 230V/400V (50/60Hz)
3. Rated current In: B, C, D type: 1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63A
4. Rated breaking capacity Icn: 6000A.
5. Pole number: 1P, 1P+N, 2P, 3P, 3P+N, 4P
6. Endurance: mechanical: 10000cycles, electrical: 8000 cycles.

Outline and Installaiton Dimensions



Main Feature

Conforming of latest standard of IEC and GB 10963-99

Accurate current tripping and setting

High current limitation capabillty to realize the high selection

Dual-terminal at two sides is suitable for the busway and single-core conductor

Multiple-function accessories series

Wiring screw of combined channel with large torque and solid witing and rapid wiring

Free incoming-line direction of power supply

Dual-terminal at two sides is suitable for the busway and

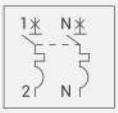
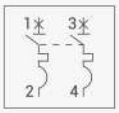
single-core conductor

Notices when to purchase the product

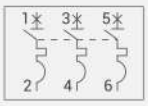
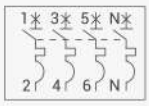
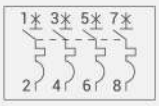
When to purchase the products, please indicate the model, rated current, tripping mode,pole number, and qty.

For example:OM1 rated current 40A, tripping mode: C type, 3P, 100pcs Written as: OM13P0600C40

OM1 High Breaking Capacity Mini Circuit Breaker

		3P	3P+N	4P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve Transient tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	1	OM11P060B01	OM11PN060B01	OM12P060B01
	2	OM11P060B02	OM11PN060B02	OM12P060B02
	3	OM11P060B03	OM11PN060B03	OM12P060B03
	4	OM11P060B04	OM11PN060B04	OM12P060B04
	5	OM11P060B05	OM11PN060B05	OM12P060B05
	6	OM11P060B06	OM11PN060B06	OM12P060B06
	10	OM11P060B10	OM11PN060B10	OM12P060B10
	16	OM11P060B16	OM11PN060B16	OM12P060B16
	20	OM11P060B20	OM11PN060B20	OM12P060B20
	25	OM11P060B25	OM11PN060B25	OM12P060B25
	32	OM11P060B32	OM11PN060B32	OM12P060B32
C Type charcteristics curve Transient tripping 5-10In Mainly used for lighting or partial power circuit	40	OM11P060B40	OM11PN060B40	OM12P060B40
	50	OM11P060B50	OM11PN060B50	OM12P060B50
	63	OM11P060B63	OM11PN060B63	OM12P060B63
	1	OM11P060C01	OM11PN060C01	OM12P060C01
	2	OM11P060C02	OM11PN060C02	OM12P060C02
	3	OM11P060C03	OM11PN060C03	OM12P060C03
	4	OM11P060C04	OM11PN060C04	OM12P060C04
	5	OM11P060C05	OM11PN060C05	OM12P060C05
	6	OM11P060C06	OM11PN060C06	OM12P060C06
	10	OM11P060C10	OM11PN060C10	OM12P060C10
	16	OM11P060C16	OM11PN060C16	OM12P060C16
	20	OM11P060C20	OM11PN060C20	OM12P060C20
	25	OM11P060C25	OM11PN060C25	OM12P060C25
	32	OM11P060C32	OM11PN060C32	OM12P060C32
	40	OM11P060C40	OM11PN060C40	OM12P060C40
	50	OM11P060C50	OM11PN060C50	OM12P060C50
	63	OM11P060C63	OM11PN060C63	OM12P060C63
D Type charcteristics curve Transient tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	1	OM11P060D01	OM11PN060D01	OM12P060D01
	2	OM11P060D02	OM11PN060D02	OM12P060D02
	3	OM11P060D03	OM11PN060D03	OM12P060D03
	4	OM11P060D04	OM11PN060D04	OM12P060D04
	5	OM11P060D05	OM11PN060D05	OM12P060D05
	6	OM11P060D06	OM11PN060D06	OM12P060D06
	10	OM11P060D10	OM11PN060D10	OM12P060D10
	16	OM11P060D16	OM11PN060D16	OM12P060D16
	20	OM11P060D20	OM11PN060D20	OM12P060D20
	25	OM11P060D25	OM11PN060D25	OM12P060D25
	32	OM11P060D32	OM11PN060D32	OM12P060D32
	40	OM11P060D40	OM11PN060D40	OM12P060D40
	50	OM11P060D50	OM11PN060D50	OM12P060D50
	63	OM11P060D63	OM11PN060D63	OM12P060D63

OM1 Mini Circuit Breaker

		3P	3P+N	4P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Transient tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	1	OM13P060B01	OM13PN060B01	OM14P060B01
	2	OM13P060B02	OM13PN060B02	OM14P060B02
	3	OM13P060B03	OM13PN060B03	OM14P060B03
	4	OM13P060B04	OM13PN060B04	OM14P060B04
	5	OM13P060B05	OM13PN060B05	OM14P060B05
	6	OM13P060B06	OM13PN060B06	OM14P060B06
	10	OM13P060B10	OM13PN060B10	OM14P060B10
	16	OM13P060B16	OM13PN060B16	OM14P060B16
	20	OM13P060B20	OM13PN060B20	OM14P060B20
	25	OM13P060B25	OM13PN060B25	OM14P060B25
	32	OM13P060B32	OM13PN060B32	OM14P060B32
C Type charcteristics curve	40	OM13P060B40	OM13PN060B40	OM14P060B40
	50	OM13P060B50	OM13PN060B50	OM14P060B50
	63	OM13P060B63	OM13PN060B63	OM14P060B63
Transient tripping 5-10In Mainly used for lighting or partial power circuit	1	OM13P060C01	OM13PN060C01	OM14P060C01
	2	OM13P060C02	OM13PN060C02	OM14P060C02
	3	OM13P060C03	OM13PN060C03	OM14P060C03
	4	OM13P060C04	OM13PN060C04	OM14P060C04
	5	OM13P060C05	OM13PN060C05	OM14P060C05
	6	OM13P060C06	OM13PN060C06	OM14P060C06
	10	OM13P060C10	OM13PN060C10	OM14P060C10
	16	OM13P060C16	OM13PN060C16	OM14P060C16
	20	OM13P060C20	OM13PN060C20	OM14P060C20
	25	OM13P060C25	OM13PN060C25	OM14P060C25
	32	OM13P060C32	OM13PN060C32	OM14P060C32
	40	OM13P060C40	OM13PN060C40	OM14P060C40
	50	OM13P060C50	OM13PN060C50	OM14P060C50
	63	OM13P060C63	OM13PN060C63	OM14P060C63
D Type charcteristics curve				
Transient tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	1	OM13P060D01	OM13PN060D01	OM14P060D01
	2	OM13P060D02	OM13PN060D02	OM14P060D02
	3	OM13P060D03	OM13PN060D03	OM14P060D03
	4	OM13P060D04	OM13PN060D04	OM14P060D04
	5	OM13P060D05	OM13PN060D05	OM14P060D05
	6	OM13P060D06	OM13PN060D06	OM14P060D06
	10	OM13P060D10	OM13PN060D10	OM14P060D10
	16	OM13P060D16	OM13PN060D16	OM14P060D16
	20	OM13P060D20	OM13PN060D20	OM14P060D20
	25	OM13P060D25	OM13PN060D25	OM14P060D25
	32	OM13P060D32	OM13PN060D32	OM14P060D32
	40	OM13P060D40	OM13PN060D40	OM14P060D40
	50	OM13P060D50	OM13PN060D50	OM14P060D50
	63	OM13P060D63	OM13PN060D63	OM14P060D63

OM2 High Breaking Capacity Mini Circuit Breaker

Technology Specification

Conform to standard	EN60898(IEC898)、GB/T 10963.1
Rated voltage	230V/400V; 50/60Hz
Rated breaking capacity	4.5kA / 6kA / 10kA
Trip charetor	B, C, D Type charcteristics curve
Max fuse than can be connected to	100A gL(>10kA)
Selection grade	3
Work environment temperature	−5°C−+40°C
Case protection grade	IP40(After installation)
Electrical life	Not less of 8000 times switching aperation
Mechanical life	Not less of 20000 times switching aperation

Mechanical Parameters

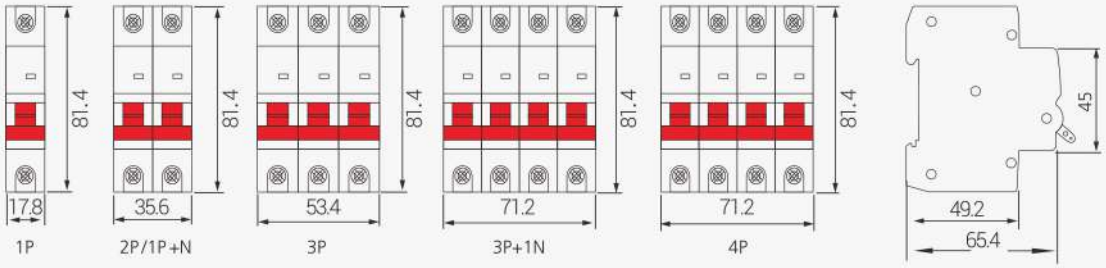
Installation mode	
The length of exposed plane	45mm
Enclosure height	81.4mm
Enclosure width	17.8mm every pole(monopole)
Installation method	The standard IEC 35mm rail
Terminal manner	Dual purpose terminal can connect generatrix and wire
Terminal block capability	Conductor 1-25mm, Generatrix thickness 0.8-2mm

OM2 High Breaking Capacity Mini Circuit Breaker

Accessories

Auxilicary contact	(Refer to P33)
Contact with alarm indication	(Refer to P33)
Shunt trip	(Refer to P34)
Under voltage trip	(Refer to P34)

Outline and Installaiton Dimensions



Main Feature

Conforming of latest standard of IEC and GB 10963-99

Accurate current tripping and setting

High breaking capabllity 4.5kA / 6kA / 10kA

High current limitation capabillty to realize the high selection

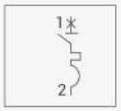
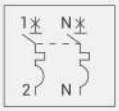
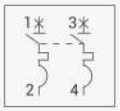
Dual-terminal at two sides is suitable for the busway and single-core conductor

Multiple-function accessories series

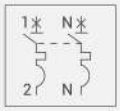
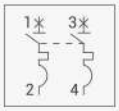
Wiring screw of combined channel with large torque and solid witing and rapid wiring

Free incoming-line direction of power supply

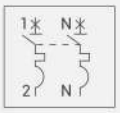
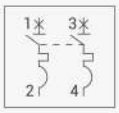
OM2 High Breaking Capacity Mini Circuit Breaker

		1P	1P+N	2P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Translent tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM21P045B06	OM21PN045B06	OM22P045B06
	10	OM21P045B10	OM21PN045B10	OM22P045B10
	16	OM21P045B16	OM21PN045B16	OM22P045B16
	20	OM21P045B20	OM21PN045B20	OM22P045B20
	25	OM21P045B25	OM21PN045B25	OM22P045B25
	32	OM21P045B32	OM21PN045B32	OM22P045B32
	40	OM21P045B40	OM21PN045B40	OM22P045B40
C Type charcteristics curve	50	OM21P045B50	OM21PN045B50	OM22P045B50
	63	OM21P045B63	OM21PN045B63	OM22P045B63
Translent tripping 5-10In Mainly used for lighting or partial power circuit	6	OM21P045C06	OM21PN045C06	OM22P045C06
	10	OM21P045C10	OM21PN045C10	OM22P045C10
	16	OM21P045C16	OM21PN045C16	OM22P045C16
	20	OM21P045C20	OM21PN045C20	OM22P045C20
	25	OM21P045C25	OM21PN045C25	OM22P045C25
	32	OM21P045C32	OM21PN045C32	OM22P045C32
	40	OM21P045C40	OM21PN045C40	OM22P045C40
	50	OM21P045C50	OM21PN045C50	OM22P045C50
	63	OM21P045C63	OM21PN045C63	OM22P045C63
D Type charcteristics curve				
Translent tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM21P045D06	OM21PN045D06	OM22P045D06
	10	OM21P045D10	OM21PN045D10	OM22P045D10
	16	OM21P045D16	OM21PN045D16	OM22P045D16
	20	OM21P045D20	OM21PN045D20	OM22P045D20
	25	OM21P045D25	OM21PN045D25	OM22P045D25
	32	OM21P045D32	OM21PN045D32	OM22P045D32
	40	OM21P045D40	OM21PN045D40	OM22P045D40
	50	OM21P045D50	OM21PN045D50	OM22P045D50
	63	OM21P045D63	OM21PN045D63	OM22P045D63

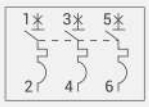
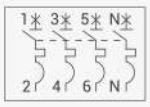
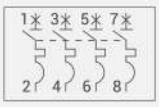
OM2 High Breaking Capacity Mini Circuit Breaker

		1P	1P+N	2P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Translent tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM21P060B06	OM21PN060B06	OM22P060B06
	10	OM21P060B10	OM21PN060B10	OM22P060B10
	16	OM21P060B16	OM21PN060B16	OM22P060B16
	20	OM21P060B20	OM21PN060B20	OM22P060B20
	25	OM21P060B25	OM21PN060B25	OM22P060B25
	32	OM21P060B32	OM21PN060B32	OM22P060B32
	40	OM21P060B40	OM21PN060B40	OM22P060B40
C Type charcteristics curve	50	OM21P060B50	OM21PN060B50	OM22P060B50
	63	OM21P060B63	OM21PN060B63	OM22P060B63
Translent tripping 5-10In Mainly used for lighting or partial power circuit	6	OM21P060C06	OM21PN060C06	OM22P060C06
	10	OM21P060C10	OM21PN060C10	OM22P060C10
	16	OM21P060C16	OM21PN060C16	OM22P060C16
	20	OM21P060C20	OM21PN060C20	OM22P060C20
	25	OM21P060C25	OM21PN060C25	OM22P060C25
	32	OM21P060C32	OM21PN060C32	OM22P060C32
	40	OM21P060C40	OM21PN060C40	OM22P060C40
	50	OM21P060C50	OM21PN060C50	OM22P060C50
	63	OM21P060C63	OM21PN060C63	OM22P060C63
D Type charcteristics curve				
Translent tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM21P060D06	OM21PN060D06	OM22P060D06
	10	OM21P060D10	OM21PN060D10	OM22P060D10
	16	OM21P060D16	OM21PN060D16	OM22P060D16
	20	OM21P060D20	OM21PN060D20	OM22P060D20
	25	OM21P060D25	OM21PN060D25	OM22P060D25
	32	OM21P060D32	OM21PN060D32	OM22P060D32
	40	OM21P060D40	OM21PN060D40	OM22P060D40
	50	OM21P060D50	OM21PN060D50	OM22P060D50
	63	OM21P060D63	OM21PN060D63	OM22P060D63

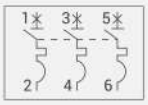
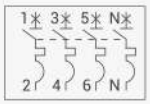
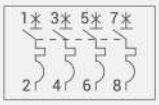
OM2 High Breaking Capacity Mini Circuit Breaker

		1P	1P+N	2P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Translent tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM21P100B06	OM21PN100B06	OM22P100B06
	10	OM21P100B10	OM21PN100B10	OM22P100B10
	16	OM21P100B16	OM21PN100B16	OM22P100B16
	20	OM21P100B20	OM21PN100B20	OM22P100B20
	25	OM21P100B25	OM21PN100B25	OM22P100B25
	32	OM21P100B32	OM21PN100B32	OM22P100B32
	40	OM21P100B40	OM21PN100B40	OM22P100B40
C Type charcteristics curve	50	OM21P100B50	OM21PN100B50	OM22P100B50
	63	OM21P100B63	OM21PN100B63	OM22P100B63
Translent tripping 5-10In Mainly used for lighting or partial power circuit	6	OM21P100C06	OM21PN100C06	OM22P100C06
	10	OM21P100C10	OM21PN100C10	OM22P100C10
	16	OM21P100C16	OM21PN100C16	OM22P100C16
	20	OM21P100C20	OM21PN100C20	OM22P100C20
	25	OM21P100C25	OM21PN100C25	OM22P100C25
	32	OM21P100C32	OM21PN100C32	OM22P100C32
	40	OM21P100C40	OM21PN100C40	OM22P100C40
	50	OM21P100C50	OM21PN100C50	OM22P100C50
	63	OM21P100C63	OM21PN100C63	OM22P100C63
D Type charcteristics curve				
Translent tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM21P100D06	OM21PN100D06	OM22P100D06
	10	OM21P100D10	OM21PN100D10	OM22P100D10
	16	OM21P100D16	OM21PN100D16	OM22P100D16
	20	OM21P100D20	OM21PN100D20	OM22P100D20
	25	OM21P100D25	OM21PN100D25	OM22P100D25
	32	OM21P100D32	OM21PN100D32	OM22P100D32
	40	OM21P100D40	OM21PN100D40	OM22P100D40
	50	OM21P100D50	OM21PN100D50	OM22P100D50
	63	OM21P100D63	OM21PN100D63	OM22P100D63

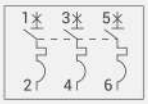
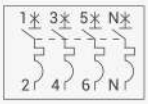
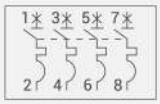
OM2 High Breaking Capacity Mini Circuit Breaker

		3P	3P+N	4P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Translent tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM23P045B06	OM23PN045B06	OM24P045B06
	10	OM23P045B10	OM23PN045B10	OM24P045B10
	16	OM23P045B16	OM23PN045B16	OM24P045B16
	20	OM23P045B20	OM23PN045B20	OM24P045B20
	25	OM23P045B25	OM23PN045B25	OM24P045B25
	32	OM23P045B32	OM23PN045B32	OM24P045B32
	40	OM23P045B40	OM23PN045B40	OM24P045B40
C Type charcteristics curve	50	OM23P045B50	OM23PN045B50	OM24P045B50
	63	OM23P045B63	OM23PN045B63	OM24P045B63
Translent tripping 5-10In Mainly used for lighting or partial power circuit				
	6	OM23P045C06	OM23PN045C06	OM24P045C06
	10	OM23P045C10	OM23PN045C10	OM24P045C10
	16	OM23P045C16	OM23PN045C16	OM24P045C16
	20	OM23P045C20	OM23PN045C20	OM24P045C20
	25	OM23P045C25	OM23PN045C25	OM24P045C25
	32	OM23P045C32	OM23PN045C32	OM24P045C32
	40	OM23P045C40	OM23PN045C40	OM24P045C40
	50	OM23P045C50	OM23PN045C50	OM24P045C50
	63	OM23P045C63	OM23PN045C63	OM24P045C63
D Type charcteristics curve				
Translent tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM23P045D06	OM23PN045D06	OM24P045D06
	10	OM23P045D10	OM23PN045D10	OM24P045D10
	16	OM23P045D16	OM23PN045D16	OM24P045D16
	20	OM23P045D20	OM23PN045D20	OM24P045D20
	25	OM23P045D25	OM23PN045D25	OM24P045D25
	32	OM23P045D32	OM23PN045D32	OM24P045D32
	40	OM23P045D40	OM23PN045D40	OM24P045D40
	50	OM23P045D50	OM23PN045D50	OM24P045D50
	63	OM23P045D63	OM23PN045D63	OM24P045D63

OM2 High Breaking Capacity Mini Circuit Breaker

		3P	3P+N	4P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Transient tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM23P060B06	OM23PN060B06	OM24P060B06
	10	OM23P060B10	OM23PN060B10	OM24P060B10
	16	OM23P060B16	OM23PN060B16	OM24P060B16
	20	OM23P060B20	OM23PN060B20	OM24P060B20
	25	OM23P060B25	OM23PN060B25	OM24P060B25
	32	OM23P060B32	OM23PN060B32	OM24P060B32
	40	OM23P060B40	OM23PN060B40	OM24P060B40
C Type charcteristics curve	50	OM23P060B50	OM23PN060B50	OM24P060B50
	63	OM23P060B63	OM23PN060B63	OM24P060B63
Transient tripping 5-10In Mainly used for lighting or partial power circuit	6	OM23P060C06	OM23PN060C06	OM24P060C06
	10	OM23P060C10	OM23PN060C10	OM24P060C10
	16	OM23P060C16	OM23PN060C16	OM24P060C16
	20	OM23P060C20	OM23PN060C20	OM24P060C20
	25	OM23P060C25	OM23PN060C25	OM24P060C25
	32	OM23P060C32	OM23PN060C32	OM24P060C32
	40	OM23P060C40	OM23PN060C40	OM24P060C40
	50	OM23P060C50	OM23PN060C50	OM24P060C50
	63	OM23P060C63	OM23PN060C63	OM24P060C63
D Type charcteristics curve				
Transient tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM23P060D06	OM23PN060D06	OM24P060D06
	10	OM23P060D10	OM23PN060D10	OM24P060D10
	16	OM23P060D16	OM23PN060D16	OM24P060D16
	20	OM23P060D20	OM23PN060D20	OM24P060D20
	25	OM23P060D25	OM23PN060D25	OM24P060D25
	32	OM23P060D32	OM23PN060D32	OM24P060D32
	40	OM23P060D40	OM23PN060D40	OM24P060D40
	50	OM23P060D50	OM23PN060D50	OM24P060D50
	63	OM23P060D63	OM23PN060D63	OM24P060D63

OM2 High Breaking Capacity Mini Circuit Breaker

		3P	3P+N	4P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Transient tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM23P100B06	OM23PN100B06	OM24P100B06
	10	OM23P100B10	OM23PN100B10	OM24P100B10
	16	OM23P100B16	OM23PN100B16	OM24P100B16
	20	OM23P100B20	OM23PN100B20	OM24P100B20
	25	OM23P100B25	OM23PN100B25	OM24P100B25
	32	OM23P100B32	OM23PN100B32	OM24P100B32
	40	OM23P100B40	OM23PN100B40	OM24P100B40
C Type charcteristics curve	50	OM23P100B50	OM23PN100B50	OM24P100B50
	63	OM23P100B63	OM23PN100B63	OM24P100B63
Transient tripping 5-10In Mainly used for lighting or partial power circuit				
	6	OM23P100C06	OM23PN100C06	OM24P100C06
	10	OM23P100C10	OM23PN100C10	OM24P100C10
	16	OM23P100C16	OM23PN100C16	OM24P100C16
	20	OM23P100C20	OM23PN100C20	OM24P100C20
	25	OM23P100C25	OM23PN100C25	OM24P100C25
	32	OM23P100C32	OM23PN100C32	OM24P100C32
	40	OM23P100C40	OM23PN100C40	OM24P100C40
	50	OM23P100C50	OM23PN100C50	OM24P100C50
	63	OM23P100C63	OM23PN100C63	OM24P100C63
D Type charcteristics curve				
Transient tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM23P100D06	OM23PN100D06	OM24P100D06
	10	OM23P100D10	OM23PN100D10	OM24P100D10
	16	OM23P100D16	OM23PN100D16	OM24P100D16
	20	OM23P100D20	OM23PN100D20	OM24P100D20
	25	OM23P100D25	OM23PN100D25	OM24P100D25
	32	OM23P100D32	OM23PN100D32	OM24P100D32
	40	OM23P100D40	OM23PN100D40	OM24P100D40
	50	OM23P100D50	OM23PN100D50	OM24P100D50
	63	OM23P100D63	OM23PN100D63	OM24P100D63

OM3 High Breaking Capacity Mini Circuit Breaker

Technology Specification

Conform to standard	EN60898(IEC898)、GB/T 10963.1
Rated voltage	230V/400V; 50/60Hz
Rated breaking capacity	10kA
Trip charetor	B, C, D Type charcteristics curve
Max fuse than can be connected to	100A gL(>10kA)
Selection grade	3
Work environment temperature	−5°C−+40°C
Case protection grade	IP40(After installation)
Electrical life	Not less of 8000 times switching aperation
Mechanical life	Not less of 20000 times switching aperation

Mechanical Parameters

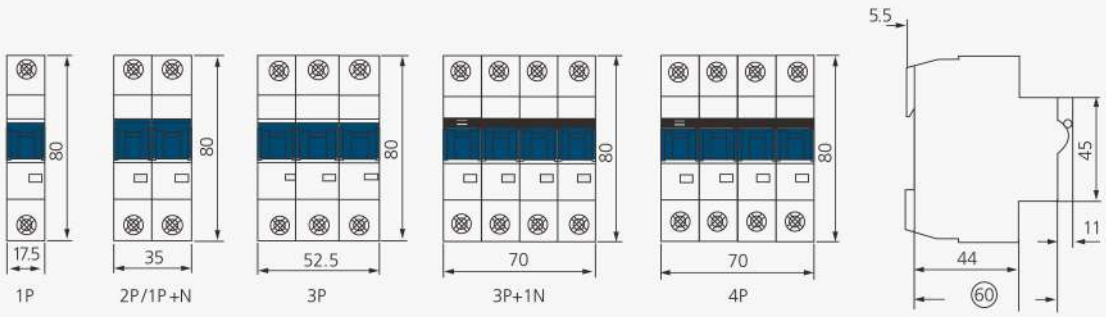
Installation mode	
The length of exposed plane	45mm
Enclosure height	80mm
Enclosure width	17.5mm every pole(monopole)
Installation method	The standard IEC 35mm rail
Terminal manner	Dual purpose terminal can connect generatrix and wire
Terminal block capability	Conductor 1-25mm, Generatrix thickness 0.8-2mm

OM3 High Breaking Capacity Mini Circuit Breaker

Accessories

Auxilicary contact	(Refer to P33)
Contact with alarm indication	(Refer to P33)
Shunt trip	(Refer to P34)
Under voltage trip	(Refer to P34)

Outline and Installaiton Dimensions



Main Feature

Conforming of latest standard of IEC and GB 10963-99

Accurate current tripping and setting

High breaking capablity up to 10kA

High current limitation capabillty to realize the high selection

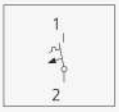
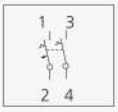
Dual-terminal at two sides is suitable for the busway and single-core conductor

Multiple-function accessories series

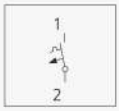
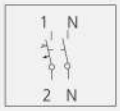
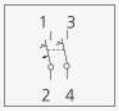
Wiring screw of combined channel with large torque and solid witing and rapid wiring

Free incoming-line direction of power supply

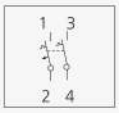
OM3 High Breaking Capacity Mini Circuit Breaker

		1P	1P+N	2P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve Transient tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM31P045B06	OM31PN045B06	OM32P045B06
	10	OM31P045B10	OM31PN045B10	OM32P045B10
	16	OM31P045B16	OM31PN045B16	OM32P045B16
	20	OM31P045B20	OM31PN045B20	OM32P045B20
	25	OM31P045B25	OM31PN045B25	OM32P045B25
	32	OM31P045B32	OM31PN045B32	OM32P045B32
	40	OM31P045B40	OM31PN045B40	OM32P045B40
C Type charcteristics curve Transient tripping 5-10In Mainly used for lighting or partial power circuit	50	OM31P045B50	OM31PN045B50	OM32P045B50
	63	OM31P045B63	OM31PN045B63	OM32P045B63
	80	OM31P045B80	OM31PN045B80	OM32P045B80
	6	OM31P045C06	OM31PN045C06	OM32P045C06
	10	OM31P045C10	OM31PN045C10	OM32P045C10
	16	OM31P045C16	OM31PN045C16	OM32P045C16
	20	OM31P045C20	OM31PN045C20	OM32P045C20
	25	OM31P045C25	OM31PN045C25	OM32P045C25
	32	OM31P045C32	OM31PN045C32	OM32P045C32
	40	OM31P045C40	OM31PN045C40	OM32P045C40
	50	OM31P045C50	OM31PN045C50	OM32P045C50
	63	OM31P045C63	OM31PN045C63	OM32P045C63
	80	OM31P045C80	OM31PN045C80	OM32P045C80
D Type charcteristics curve Transient tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM31P045D06	OM31PN045D06	OM32P045D06
	10	OM31P045D10	OM31PN045D10	OM32P045D10
	16	OM31P045D16	OM31PN045D16	OM32P045D16
	20	OM31P045D20	OM31PN045D20	OM32P045D20
	25	OM31P045D25	OM31PN045D25	OM32P045D25
	32	OM31P045D32	OM31PN045D32	OM32P045D32
	40	OM31P045D40	OM31PN045D40	OM32P045D40
	50	OM31P045D50	OM31PN045D50	OM32P045D50
	63	OM31P045D63	OM31PN045D63	OM32P045D63
	80	OM31P045D80	OM31PN045D80	OM32P045D80

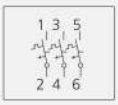
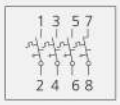
OM3 High Breaking Capacity Mini Circuit Breaker

		1P	1P+N	2P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve	6	OM31P060B06	OM31PN060B06	OM32P060B06
	10	OM31P060B10	OM31PN060B10	OM32P060B10
Transient tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	16	OM31P060B16	OM31PN060B16	OM32P060B16
	20	OM31P060B20	OM31PN060B20	OM32P060B20
	25	OM31P060B25	OM31PN060B25	OM32P060B25
	32	OM31P060B32	OM31PN060B32	OM32P060B32
	40	OM31P060B40	OM31PN060B40	OM32P060B40
C Type charcteristics curve	50	OM31P060B50	OM31PN060B50	OM32P060B50
	63	OM31P060B63	OM31PN060B63	OM32P060B63
	80	OM31P060B80	OM31PN060B80	OM32P060B80
Transient tripping 5-10In Mainly used for lighting or partial power circuit	6	OM31P045C06	OM31PN045C06	OM32P045C06
	10	OM31P045C10	OM31PN045C10	OM32P045C10
	16	OM31P045C16	OM31PN045C16	OM32P045C16
	20	OM31P045C20	OM31PN045C20	OM32P045C20
	25	OM31P045C25	OM31PN045C25	OM32P045C25
	32	OM31P045C32	OM31PN045C32	OM32P045C32
	40	OM31P045C40	OM31PN045C40	OM32P045C40
	50	OM31P045C50	OM31PN045C50	OM32P045C50
	63	OM31P045C63	OM31PN045C63	OM32P045C63
	80	OM31P045C80	OM31PN045C80	OM32P045C80
D Type charcteristics curve	6	OM31P045D06	OM31PN045D06	OM32P045D06
	10	OM31P045D10	OM31PN045D10	OM32P045D10
	16	OM31P045D16	OM31PN045D16	OM32P045D16
Transient tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	20	OM31P045D20	OM31PN045D20	OM32P045D20
	25	OM31P045D25	OM31PN045D25	OM32P045D25
	32	OM31P045D32	OM31PN045D32	OM32P045D32
	40	OM31P045D40	OM31PN045D40	OM32P045D40
	50	OM31P045D50	OM31PN045D50	OM32P045D50
	63	OM31P045D63	OM31PN045D63	OM32P045D63
	80	OM31P045D80	OM31PN045D80	OM32P045D80

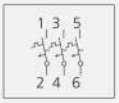
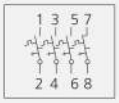
OM3 High Breaking Capacity Mini Circuit Breaker

		1P	1P+N	2P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Translent tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM31P100B06	OM31PN100B06	OM32P100B06
	10	OM31P100B10	OM31PN100B10	OM32P100B10
	16	OM31P100B16	OM31PN100B16	OM32P100B16
	20	OM31P100B20	OM31PN100B20	OM32P100B20
	25	OM31P100B25	OM31PN100B25	OM32P100B25
	32	OM31P100B32	OM31PN100B32	OM32P100B32
	40	OM31P100B40	OM31PN100B40	OM32P100B40
C Type charcteristics curve				
Translent tripping 5-10In Mainly used for lighting or partial power circuit	50	OM31P100B50	OM31PN100B50	OM32P100B50
	63	OM31P100B63	OM31PN100B63	OM32P100B63
	80	OM31P100B80	OM31PN100B80	OM32P100B80
	6	OM31P100C06	OM31PN100C06	OM32P100C06
	10	OM31P100C10	OM31PN100C10	OM32P100C10
	16	OM31P100C16	OM31PN100C16	OM32P100C16
	20	OM31P100C20	OM31PN100C20	OM32P100C20
	25	OM31P100C25	OM31PN100C25	OM32P100C25
	32	OM31P100C32	OM31PN100C32	OM32P100C32
	40	OM31P100C40	OM31PN100C40	OM32P100C40
	50	OM31P100C50	OM31PN100C50	OM32P100C50
	63	OM31P100C63	OM31PN100C63	OM32P100C63
	80	OM31P100C80	OM31PN100C80	OM32P100C80
D Type charcteristics curve				
Translent tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM31P100D06	OM31PN100D06	OM32P100D06
	10	OM31P100D10	OM31PN100D10	OM32P100D10
	16	OM31P100D16	OM31PN100D16	OM32P100D16
	20	OM31P100D20	OM31PN100D20	OM32P100D20
	25	OM31P100D25	OM31PN100D25	OM32P100D25
	32	OM31P100D32	OM31PN100D32	OM32P100D32
	40	OM31P100D40	OM31PN100D40	OM32P100D40
	50	OM31P100D50	OM31PN100D50	OM32P100D50
	63	OM31P100D63	OM31PN100D63	OM32P100D63
	80	OM31P100D80	OM31PN100D80	OM32P100D80

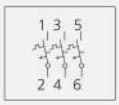
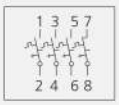
OM3 High Breaking Capacity Mini Circuit Breaker

		3P	3P+N	4P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Transient tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM33P045B06	OM33PN045B06	OM34P045B06
	10	OM33P045B10	OM33PN045B10	OM34P045B10
	16	OM33P045B16	OM33PN045B16	OM34P045B16
	20	OM33P045B20	OM33PN045B20	OM34P045B20
	25	OM33P045B25	OM33PN045B25	OM34P045B25
	32	OM33P045B32	OM33PN045B32	OM34P045B32
	40	OM33P045B40	OM33PN045B40	OM34P045B40
C Type charcteristics curve	50	OM33P045B50	OM33PN045B50	OM34P045B50
	63	OM33P045B63	OM33PN045B63	OM34P045B63
	80	OM33P045B80	OM33PN045B80	OM34P045B80
Transient tripping 5-10In Mainly used for lighting or partial power circuit	6	OM33P045C06	OM33PN045C06	OM34P045C06
	10	OM33P045C10	OM33PN045C10	OM34P045C10
	16	OM33P045C16	OM33PN045C16	OM34P045C16
	20	OM33P045C20	OM33PN045C20	OM34P045C20
	25	OM33P045C25	OM33PN045C25	OM34P045C25
	32	OM33P045C32	OM33PN045C32	OM34P045C32
	40	OM33P045C40	OM33PN045C40	OM34P045C40
	50	OM33P045C50	OM33PN045C50	OM34P045C50
	63	OM33P045C63	OM33PN045C63	OM34P045C63
	80	OM33P045C80	OM33PN045C80	OM34P045C80
D Type charcteristics curve				
Transient tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM33P045D06	OM33PN045D06	OM34P045D06
	10	OM33P045D10	OM33PN045D10	OM34P045D10
	16	OM33P045D16	OM33PN045D16	OM34P045D16
	20	OM33P045D20	OM33PN045D20	OM34P045D20
	25	OM33P045D25	OM33PN045D25	OM34P045D25
	32	OM33P045D32	OM33PN045D32	OM34P045D32
	40	OM33P045D40	OM33PN045D40	OM34P045D40
	50	OM33P045D50	OM33PN045D50	OM34P045D50
	63	OM33P045D63	OM33PN045D63	OM34P045D63
	80	OM33P045D80	OM33PN045D80	OM34P045D80

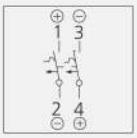
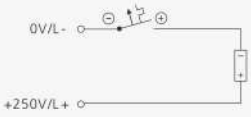
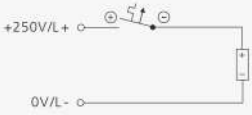
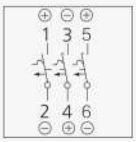
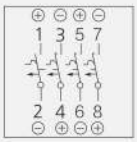
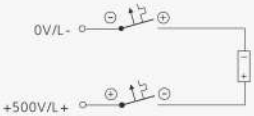
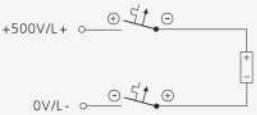
OM3 High Breaking Capacity Mini Circuit Breaker

		3P	3P+N	4P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Transient tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM33P060B06	OM33PN060B06	OM34P060B06
	10	OM33P060B10	OM33PN060B10	OM34P060B10
	16	OM33P060B16	OM33PN060B16	OM34P060B16
	20	OM33P060B20	OM33PN060B20	OM34P060B20
	25	OM33P060B25	OM33PN060B25	OM34P060B25
	32	OM33P060B32	OM33PN060B32	OM34P060B32
	40	OM33P060B40	OM33PN060B40	OM34P060B40
C Type charcteristics curve	50	OM33P060B50	OM33PN060B50	OM34P060B50
	63	OM33P060B63	OM33PN060B63	OM34P060B63
	80	OM33P060B80	OM33PN060B80	OM34P060B80
Transient tripping 5-10In Mainly used for lighting or partial power circuit	6	OM33P060C06	OM33PN060C06	OM34P060C06
	10	OM33P060C10	OM33PN060C10	OM34P060C10
	16	OM33P060C16	OM33PN060C16	OM34P060C16
	20	OM33P060C20	OM33PN060C20	OM34P060C20
	25	OM33P060C25	OM33PN060C25	OM34P060C25
	32	OM33P060C32	OM33PN060C32	OM34P060C32
	40	OM33P060C40	OM33PN060C40	OM34P060C40
	50	OM33P060C50	OM33PN060C50	OM34P060C50
	63	OM33P060C63	OM33PN060C63	OM34P060C63
	80	OM33P060C80	OM33PN060C80	OM34P060C80
D Type charcteristics curve				
Transient tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM33P060D06	OM33PN060D06	OM34P060D06
	10	OM33P060D10	OM33PN060D10	OM34P060D10
	16	OM33P060D16	OM33PN060D16	OM34P060D16
	20	OM33P060D20	OM33PN060D20	OM34P060D20
	25	OM33P060D25	OM33PN060D25	OM34P060D25
	32	OM33P060D32	OM33PN060D32	OM34P060D32
	40	OM33P060D40	OM33PN060D40	OM34P060D40
	50	OM33P060D50	OM33PN060D50	OM34P060D50
	63	OM33P060D63	OM33PN060D63	OM34P060D63
	80	OM33P060D80	OM33PN060D80	OM34P060D80

OM3 High Breaking Capacity Mini Circuit Breaker

		3P	3P+N	4P
Prevention of overload and short circuit of electrical device and circuit				
	Rated current In(A)			
B Type charcteristics curve				
Transient tripping 3-5In Mainly applied to non-sense or a sense of micro-circuits	6	OM33P100B06	OM33PN100B06	OM34P100B06
	10	OM33P100B10	OM33PN100B10	OM34P100B10
	16	OM33P100B16	OM33PN100B16	OM34P100B16
	20	OM33P100B20	OM33PN100B20	OM34P100B20
	25	OM33P100B25	OM33PN100B25	OM34P100B25
	32	OM33P100B32	OM33PN100B32	OM34P100B32
	40	OM33P100B40	OM33PN100B40	OM34P100B40
C Type charcteristics curve	50	OM33P100B50	OM33PN100B50	OM34P100B50
	63	OM33P100B63	OM33PN100B63	OM34P100B63
	80	OM33P100B80	OM33PN100B80	OM34P100B80
Transient tripping 5-10In Mainly used for lighting or partial power circuit	6	OM33P100C06	OM33PN100C06	OM34P100C06
	10	OM33P100C10	OM33PN100C10	OM34P100C10
	16	OM33P100C16	OM33PN100C16	OM34P100C16
	20	OM33P100C20	OM33PN100C20	OM34P100C20
	25	OM33P100C25	OM33PN100C25	OM34P100C25
	32	OM33P100C32	OM33PN100C32	OM34P100C32
	40	OM33P100C40	OM33PN100C40	OM34P100C40
	50	OM33P100C50	OM33PN100C50	OM34P100C50
	63	OM33P100C63	OM33PN100C63	OM34P100C63
	80	OM33P100C80	OM33PN100C80	OM34P100C80
D Type charcteristics curve				
Transient tripping 10-20In Mainly use for partial power circuit or strong inductive circuit	6	OM33P100C06	OM33PN100C06	OM34P100C06
	10	OM33P100C10	OM33PN100C10	OM34P100C10
	16	OM33P100C16	OM33PN100C16	OM34P100C16
	20	OM33P100C20	OM33PN100C20	OM34P100C20
	25	OM33P100C25	OM33PN100C25	OM34P100C25
	32	OM33P100C32	OM33PN100C32	OM34P100C32
	40	OM33P100C40	OM33PN100C40	OM34P100C40
	50	OM33P100C50	OM33PN100C50	OM34P100C50
	63	OM33P100C63	OM33PN100C63	OM34P100C63
	80	OM33P100C80	OM33PN100C80	OM34P100C80

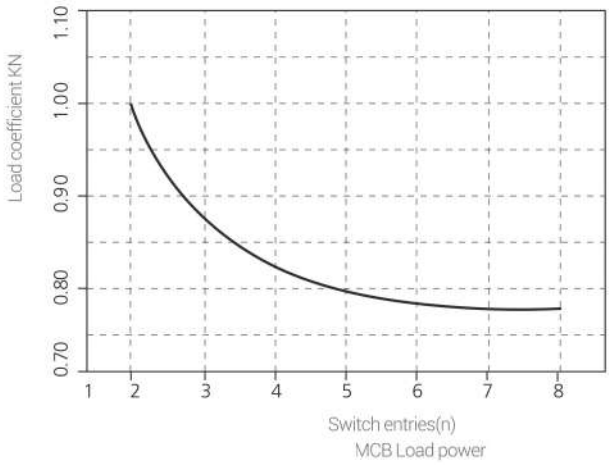
OM3 DC Miniature Circuit Breaker

		1P	2P
Overload and short-circuit protection sutiable for DC circuit, especially at the fields of communication, electric and electric vehicle and so on. Rated breaking capacity is: 6000 / 3 C characteristic curve Instantaneous trip 7–14In			
	Rated current In(A)		
	6	OM31P060C06D	OM32P060C06D
	10	OM31P060C10D	OM32P060C10D
	13	OM31P060C13D	OM32P060C13D
	16	OM31P060C16D	OM32P060C16D
	20	OM31P060C20D	OM32P060C20D
	25	OM31P060C25D	OM32P060C25D
	32	OM31P060C32D	OM32P060C32D
	40	OM31P060C40D	OM32P060C40D
	50	OM31P060C50D	OM32P060C50D
	63	OM31P060C63D	OM32P060C63D
	Rated current In(A)		
	6	OM33P060C06D	OM34P060C06D
	10	OM33P060C10D	OM34P060C10D
	13	OM33P060C13D	OM34P060C13D
	16	OM33P060C16D	OM34P060C16D
	20	OM33P060C20D	OM34P060C20D
	25	OM33P060C25D	OM34P060C25D
	32	OM33P060C32D	OM34P060C32D
	40	OM33P060C40D	OM34P060C40D
	50	OM33P060C50D	OM34P060C50D
	63	OM33P060C63D	OM34P060C63D
Caution: Power electrodes shall not be improperly connected, lest the current can not be effectively cut off.		One pole rated voltage 250V T=5ms	Two pole rated voltage 500V T=4ms

OM3 DC High Breaking Capacity Mini Circuit Breaker

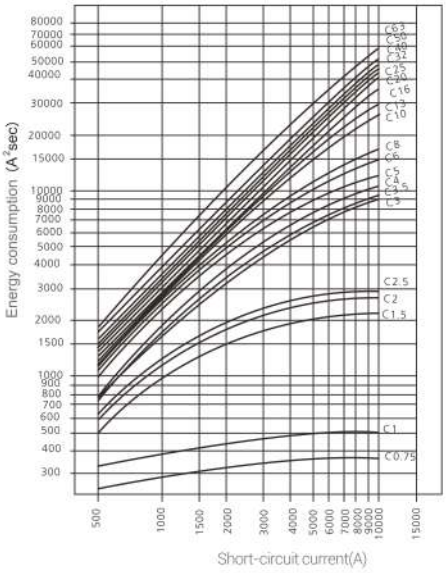
Load Capability

Applied to monopole OM3 series
Corresponding temperature and the permissible working load of switches: $I_{DL}=I_n K_t(T) K_n(N)$

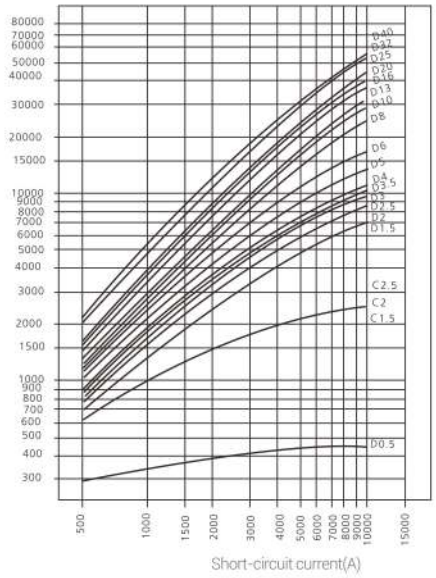


Power Consumption

Standard of EN60898(IEC898)



OM3 series maximum energy consumption, C curve, 1P



OM3 series maximum energy consumption, D curve, 1P

The influence of ambient temperature change to the load

	Environment T(°C)												
In(A)	−25	−20	−10	0	10	20	30	35	40	45	50	50	60
1	1.2	1.2	1.2	1.1	1.1	1.0	1.0	0.99	0.97	0.95	0.93	0.90	0.89
2	2.4	2.4	2.3	2.2	2.2	2.1	2.1	2.0	1.9	1.9	1.9	1.8	1.8
3	3.4	3.6	3.5	3.4	3.3	3.1	3.0	3.0	2.9	2.8	2.8	2.7	2.7
4	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.8	3.7	3.6	3.5
5	6.1	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4
6	7.3	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3
10	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9.0	8.9
15	18	18	17	17	16	16	15	15	15	14	14	14	13
16	20	19	19	18	17	17	16	16	16	15	15	14	14
20	24	24	23	22	22	21	20	20	19	19	19	18	18
25	31	30	29	28	27	26	25	25	24	24	23	23	22
32	39	38	37	36	35	33	32	32	31	30	30	29	28
40	49	48	47	45	43	42	40	39	39	38	37	36	35
50	61	60	58	56	54	52	50	49	48	47	46	45	44
63	77	76	73	71	68	66	63	62	61	60	58	57	56

OM3 DC High Breaking Capacity Mini Circuit Breaker

OM3 and the short circuit capacity of Fuse Do or NH

1.4 high selectivity is up to 1.4kA. No selectivity

The selectivity of Fuse D01,D02,D03

MCB(OM3) Rated current		(A)(IEC269-1) Fuse gl rated current(A)(IEC269-1)								
		10	16	20	25	35	50	63	80	100
C characteristic curve	1	<0.5	10	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	2	<0.5	<0.5	0.5	0.7	10.0	10.0	10.0	10.0	10.0
	3	<0.5	<0.5	<0.5	0.6	1.9	5.2	10.0	10.0	10.0
	4	<0.5	<0.5	<0.5	0.6	1.6	4.0	7.6	10.0	10.0
	6		<0.5	<0.5	<0.5	1.2	2.7	4.5	10.0	10.0
	10			<0.5	<0.5	1.2	2.3	3.1	5.4	10.0
	16					1.1	2.1	2.8	5.4	9.5
	20					1.0	1.1	2.6	4.0	8.3
	25						1.0	2.5	3.8	7.8
	32							2.5	3.7	7.3
	40								3.5	7.0
	50									6.5
	63									5.9
D characteristic curve	1	<0.5	<0.5	0.7	1.3	10.0	10.0	10.0	10.0	10.0
	2	<0.5	<0.5	0.6	0.8	2.2	6.7	10.0	10.0	10.0
	3	<0.5	<0.5	0.5	0.7	1.8	4.8	9.3	10.0	10.0
	4		<0.5	0.5	0.7	1.7	4.6	7.7	10.0	10.0
	6			<0.5	0.5	1.3	2.9	4.5	9.0	10.0
	10				0.5	1.1	2.2	3.0	5.0	10.0
	16						1.9	2.6	3.9	9.0
	20						1.7	2.3	3.5	8.0
	25							2.2	3.4	7.5
	32								2.9	6.5
	40									5.7

The selectivity of Fuse NH-00

MCB(OM3) Rated current		(A)(IEC269-1) Fuse gl rated current(A)(IEC269-1)										
		10	16	20	25	35	50	63	80	100	125	160
C characteristic curve	1	0.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	2	<0.5	0.6	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	3	<0.5	<0.5	0.7	1.8	2.6	4.7	6.6	10.0	10.0	10.0	10.0
	4	<0.5	<0.5	0.7	1.5	2.1	3.6	5.0	10.0	10.0	10.0	10.0
	6	<0.5	<0.5	0.5	1.2	1.5	2.5	3.3	5.7	10.0	10.0	10.0
	10			0.5	1.0	1.4	2.0	2.5	3.8	8.0	10.0	10.0
	16				1.0	1.3	1.8	2.3	3.3	6.0	8.8	10.0
	20				1.0	1.2	1.7	2.2	3.2	5.5	7.7	10.0
	25						1.6	2.1	3.0	5.2	7.3	10.0
	32							2.1	2.9	5.0	7.0	10.0
	40								2.8	4.8	6.7	10.0
	50									4.5	6.3	9.5
	63										5.9	8.4
D characteristic curve	1	<0.5	<0.6	1.4	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	2	<0.5	<0.5	0.8	2.1	3.1	6.0	8.6	10.0	10.0	10.0	10.0
	3	<0.5	<0.5	0.7	1.7	2.4	4.3	6.0	10.0	10.0	10.0	10.0
	4	<0.5	<0.5	0.4	1.6	2.2	3.8	5.2	10.0	10.0	10.0	10.0
	6		<0.5	0.5	1.2	1.6	2.6	3.3	5.5	10.0	10.0	10.0
	10			0.5	1.0	1.3	1.9	2.5	3.6	7.2	10.0	10.0
	16					1.1	1.6	2.0	3.0	5.5	8.0	10.0
	20						1.4	1.8	2.8	5.0	7.5	10.0
	25							1.8	2.7	4.8	7.0	10.0
	32								2.4	4.1	6.2	9.3
	40									4.0	6.0	9.0

OM3PC DC Miniature Circuit Breaker

Application

Short circuit protection

Overload protection

Control

Isolation

Application

It is suitable for photovoltaic DC system to protect the overload and short circuit of photovoltaic DC line, and can also be used in communication, electric power, locomotive and other industries. At the same time, it can also be manually disconnected when necessary. For example, a circuit needs to be disconnected during maintenance to avoid the risk of electric shock during maintenance work.

Technology Specification

Technology Specification

Certification		Get IEC report
Connfrom to standard of electrical		IEC60947–2 GB/T 14048.2
Rated working voltage		1P 300V DC
		2P 600V DC
		3P 900V DC
		4P 1200V DC
Impulse withstand voltage		6kV
Rated operating breaking capacity		6kA
Trip Characteristics	B Type	4In–7In
	C Type	7In–15In
Disconnection instructions		A green sign on the indicator window indicates that the contacts are in the open position

Mechanical Parameters

Enclosure IP rating	IP40 (After installation)
External length (A) (Refer to the dimension drawing)	45.5mm
External height (B) (Refer to the dimension drawing)	80.4mm
External width (C) (Refer to the dimension drawing)	17.7mm (1P)
Terminal type	Dual-purpose terminal for connecting busbars and conductor.
Terminal wiring capability	Conductor 1mm²-25mm², Busbar thickness 0.8mm-2mm
Modular structure	Can be easily mounted on IEC standard rails (35mm)

OM3PC DC Miniature Circuit Breaker

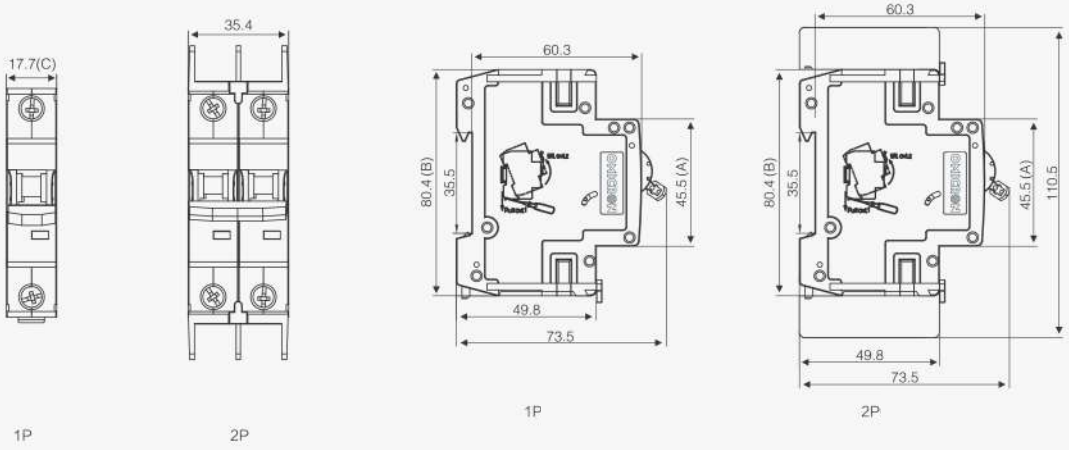
Other Parameters

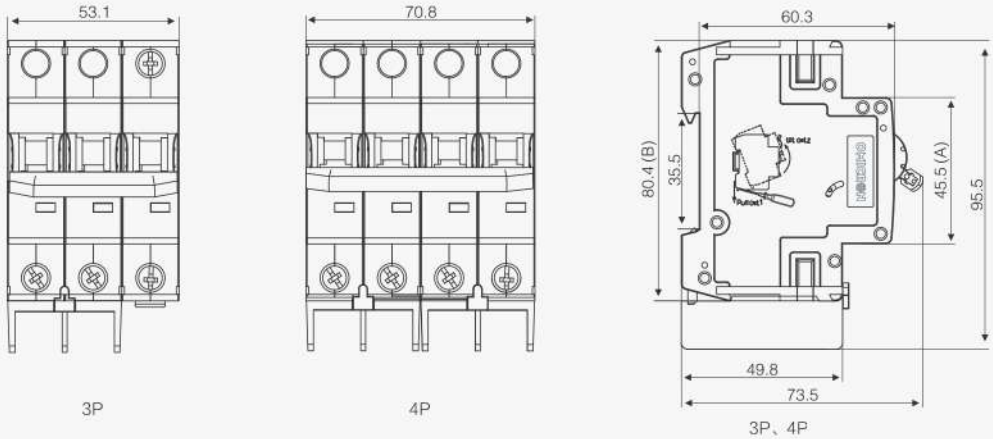
Electrical life	Electrical life	10,000
	Mechanical life	20,000
Ambient	Operation ambient temperature	−5°C−+40°C
	Storage ambient temperature	−25°C−+70°C
Heat and humidity resistance		Class 2 (95% relative humidity at 55 °C)

Weight (g)

(63A) Type (63A)	Weight
1P	110
2P	228
3P	340
4P	466

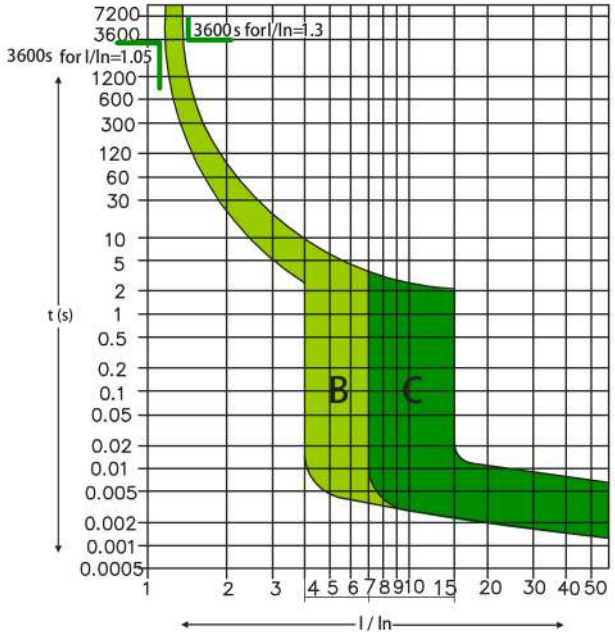
Outline and Installaiton Dimensions





OM3PC DC Miniature Circuit Breaker

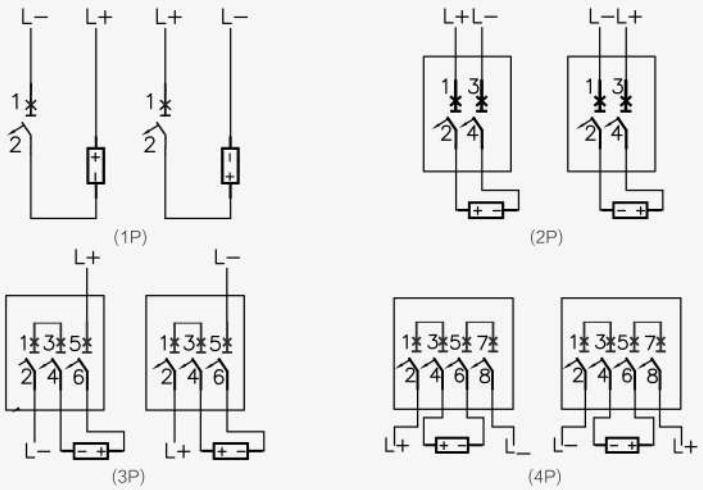
Charcteristics Curve



Electrical Connections

This photovoltaic DC circuit breaker has no positive or negative polarity, and there is no need to distinguish between positive and negative when connecting to the DC power supply. However, when connecting the load, it should be noted that the positive and negative polarities of the power supply should correspond to the positive and negative polarities of the load.

1P/OM31PC63D	2P/OM32PC63D	3P/OM33PC63D	4P/OM34PC63D
300V DC	600V DC	900V DC	1200V DC



Remarks

1. L+ Positive power supply, L- Negative power supply.
2. Overload

OM3N 1N Mini Circuit Breaker

Technology Specification

Conform to standard	IEC898(EN60898)、GB/T 10963.1
Rated voltage	230V; 50/60Hz
Rated breaking capacity	6kA
Rated current	6-40A
Trip charetor	B, C Type charcteristics curve
Max fuse than can be connected to	100A gL/gG(>6kA)
Selection grade	3
Work environment temperature	-5°C-+40°C
Case protection grade	IP40
Electrical life	Not less of 8000 times switching aperation

Mechanical Parameters

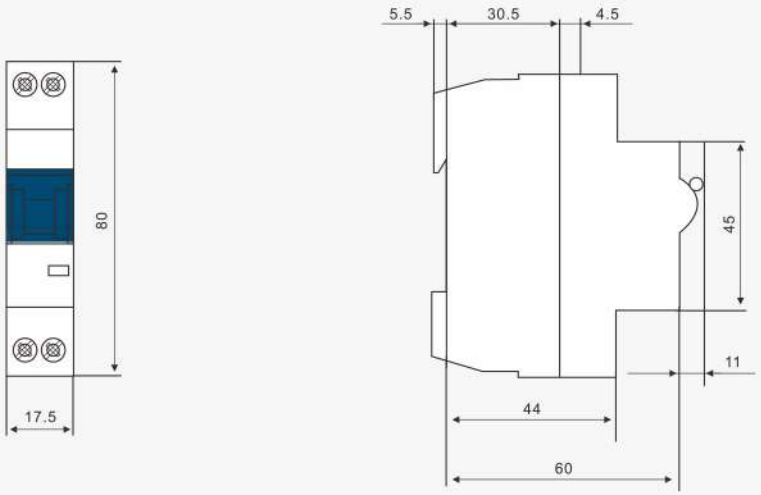
Installation mode	
The length of exposed plane	45mm
Enclosure height	80mm
Enclosure width	17.5mm(1P+N)
Installation method	The accord IEC 35mm rail
Terminal manner	Terminal connection of exaltation
Terminal block capability	1-16mm^2

OM3N 1N Mini Circuit Breaker

Accessories

Auxilicary contact	OM3Z-AHK	(Refer to P33)
Contact with alarm indication	OM3Z-NHK	(Refer to P33)
Generatrix line	OMZLVIV-10/...	(Refer to P35)

Outline and Installaiton Dimensions



Main Feature

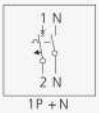
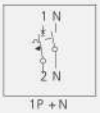
High breaking capability up to 6kA

Small dimension and one modular quantity width

Wide cureent scope up to 40A

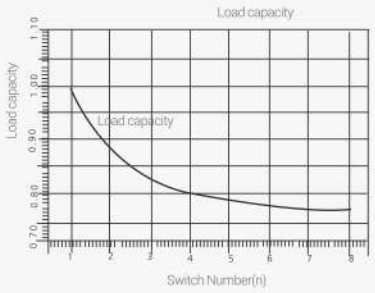
Different hand handle color indicates different rated cureent

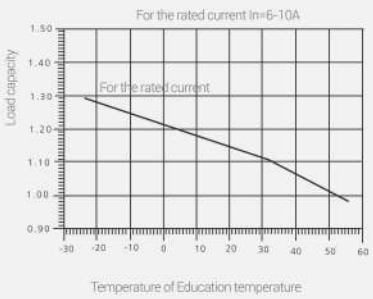
OM3N 1N Mini Circuit Breaker

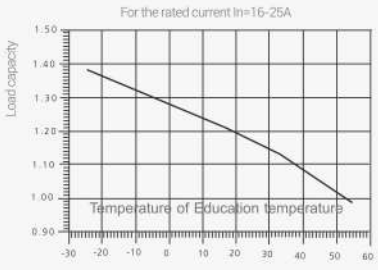
		1P	1P
Performace of the functions of overload and short-circuit protection Suitable for protection to the civil lighting and socket circuit. The neutral line break for safer and more reliable. C Type charcteristics curve			
	Rated current In(A)		
	6	OM3NPNB06	OM3N1PNC06
	10	OM3NPNB10	OM3N1PNC10
	16	OM3NPNB16	OM3N1PNC16
	20	OM3NPNB20	OM3N1PNC20
	25	OM3NPNB25	OM3N1PNC25
	32	OM3NPNB32	OM3N1PNC32
	40	OM3NPNB40	OM3N1PNC40

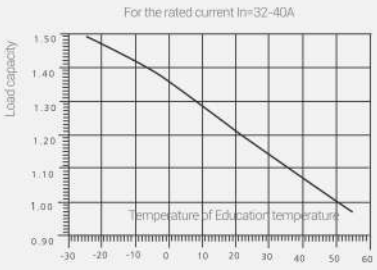
Load Capability

Suitable for the series OM3N of one modular quantity
Allowable load under environmental temperature T(°C) and n qauntities of switches working state:
$I_{OL}=I_nK_1(T)K_N(N)$



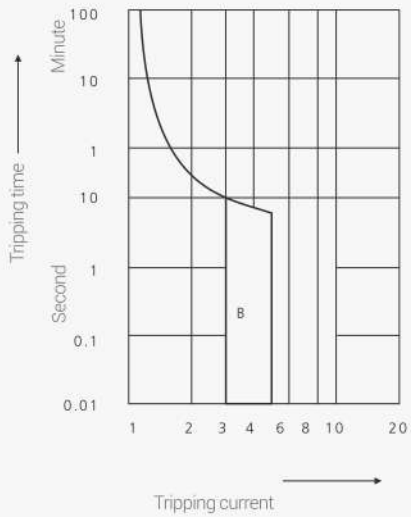




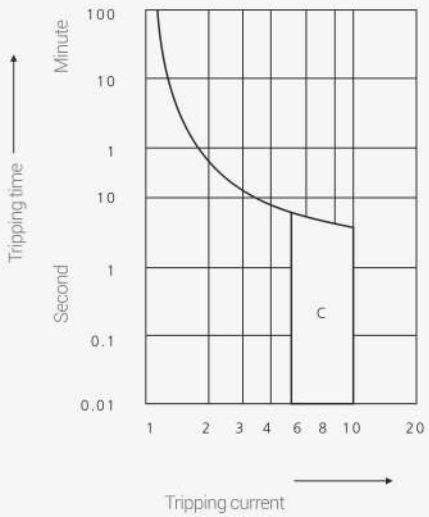


OM3N 1N Mini Circuit Breaker

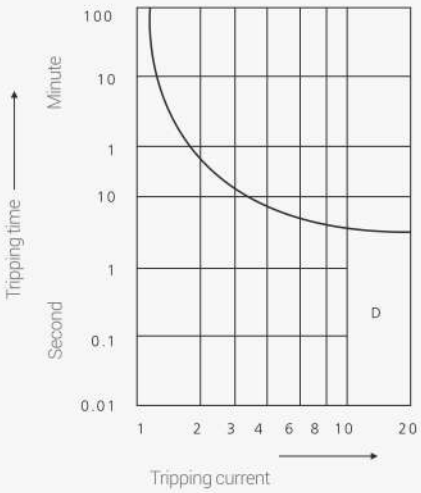
B charcter curve



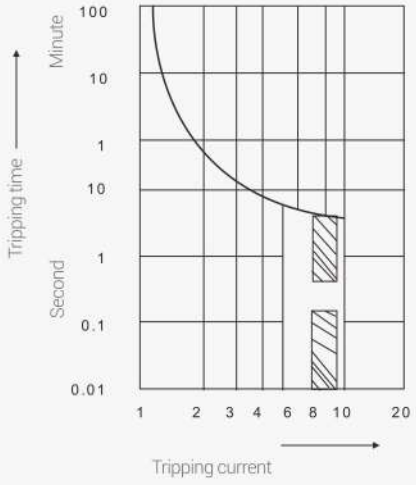
C charcter curve



D charcter curve



C charcter curve
F&G restrict range



Tripping character meets the standard of IEC898(EN60898)

B character curve: Usually used for lighting distribution systems.

C character curve: Usually used for lighting distribution, socket loop and some power distribution systems.

D character curve: Usually used for power load or other inductive load circuit

OM3N 1N Mini Circuit Breaker

OM3 1N and the short circuit capacity of Fuse Do or NH

1.4 high selectivity is up to 1.4kA: No selectivity

The capability of Fuse D01,D02,D03

Rated current of UKB71 1N		Fuse gl rated current(A)							
		16	20	25	35	50	63	80	100
16	6	<0.5	0.6	0.9	2.3	5.0	6.0	6.0	6.0
<0.5	10		0.5	0.7	1.5	3.0	4.5	6.0	6.0
C characteristic curve	13		0.5	0.7	1.3	2.7	4.0	6.0	6.0
	20			0.6	1.1	2.2	3.0	5.5	6.0
	16			0.6	1.1	2.1	2.9	5.2	6.0
	25			0.5	1.0	2.0	2.7	4.8	6.0
	32			0.5	1.0	1.9	2.6	4.5	6.0
	40			0.5	0.9	1.7	2.3	4.0	6.0

The selectivity of Fuse NH-100

Rated current of		Fuse gl rated current(A)							
		16	20	25	35	50	63	80	100
16	6	<0.5	0.5	0.8	2.1	4.5	5.7	6.0	6.0
<0.5	10			0.6	1.4	2.8	3.5	5.2	6.0
C characteristic curve	13			0.6	1.3	2.5	3.1	4.9	6.0
	20			0.5	1.0	2.0	2.5	3.8	6.0
	16			0.5	0.9	1.8	2.3	3.5	6.0
	25			0.5	0.9	1.6	2.1	3.3	6.0
	32				0.8	1.4	2.0	3.1	6.0
	40				0.8	1.4	1.9	2.9	6.0

Practice Experience

To adjust the tripping current from 5-10In to 7-9.5In could avoid the false tripping when the equipment isn't easy to start.

OM3 Mini Circuit Breaker

Technology Specification

Conform to standard	IEC947.2(EN60947.2)、GB/T 14048.2
Rated voltage	230/400V; 50/60Hz
Rated breaking capacity	25kA
Trip charetor	C,D Type charcteristics curve
Max fuse than can be connected to	200A gL(>20kA)
Selection grade	3
Work environment temperature	−5°C−+40°C
Case protection grade	IP40 (Install after)
Electrical life	Not less of 8000 times switching aperation

Mechanical Parameters

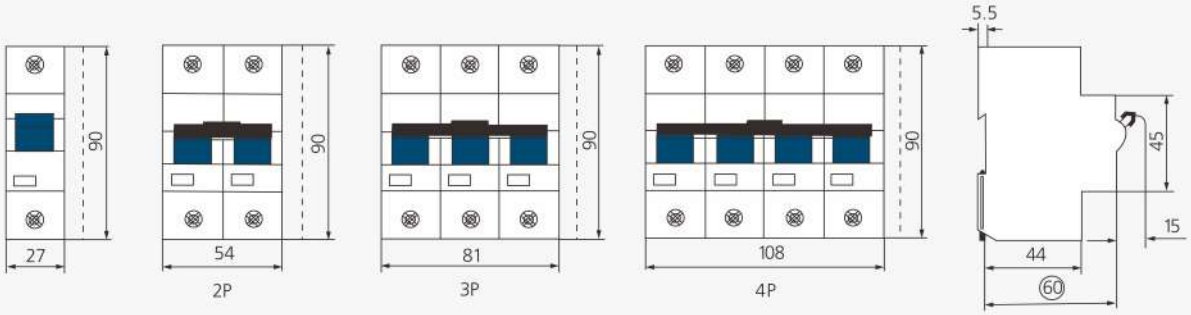
Installation mode	
The length of exposed plane	45mm
Enclosure height	90mm
Enclosure width	27mm every pole (monopole)
Installation method	The accord IEC 35mm rail
Terminal manner	Terminal connection of exaltation
Terminal block capability	1−16mm²

OM3 Mini Circuit Breaker

Accessories

Auxilicary contact	(Refer to P32)
Contact with alarm indication	(Refer to P23)
	(Refer to P32)

Outline and Installaiton Dimensions



Main Feature

Extremely high breaking capacity and current limiting characteristic

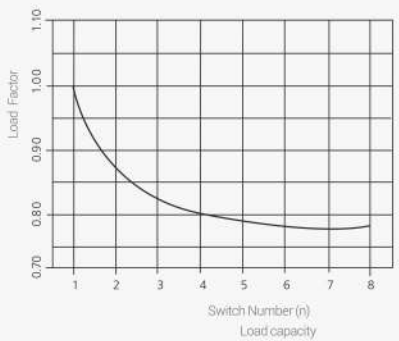
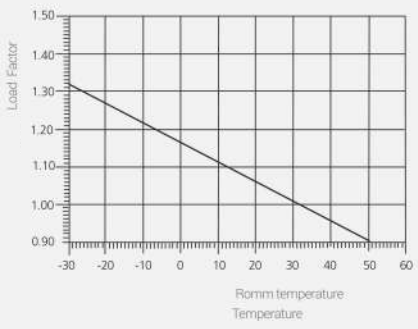
With contactor condition indicator

With specifi c-purpose accessories

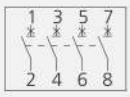
OM3 Mini Circuit Breaker

			1P	2P
Applied to short circuit and over loading protection in the electric circuits for industrial, business or civil purposes.				
C Type charcteristics curve	Rated current In(A)	Rated breaking capacity In(A)		
Translent tripping 5-10In Mainly for distribution protection in business or civil building use with instantaneous	20	25	OM31P250C020	OM32P250C020
	25	25	OM31P250C025	OM32P250C025
	32	25	OM31P250C032	OM32P250C032
	40	25	OM31P250C040	OM32P250C040
	50	25	OM31P250C050	OM32P250C050
D Type charcteristics curve	63	25	OM31P250C063	OM32P250C063
	80	25	OM31P250C080	OM32P250C080
	100	25	OM31P250C100	OM32P250C100
Translent tripping 10-20In Mainly for distribution use in industrial power drive	125	25	OM31P250C125	OM32P250C125
	50	25	OM31P250D050	OM32P250D050
	63	25	OM31P250D063	OM32P250D063
	80	25	OM31P250D080	OM32P250D080
	100	25	OM31P250D100	OM32P250D100

Load Capability

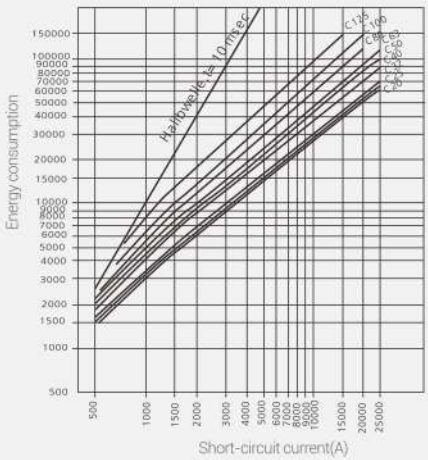
Suitable for the monopole series OM3 Allowable load under environmental temperature T(°C) and n qauntities of switches working state: $I_{\alpha}=I_nK_t(T)K_n(N)$		

OM3 Mini Circuit Breaker

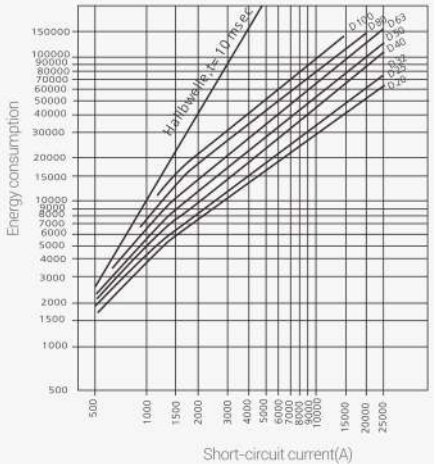
			3P	4P
Applied to short circuit and over loading protection in the electric circuits for industrial, business or civil purposes.				
C Type charcteristics curve	Rated current In(A)	Rated breaking capacity In(A)		
Transient tripping 5-10In Mainly for distribution protection in business or civil building use with instantaneous	20	25	OM33P250C020	OM34P250C020
	25	25	OM33P250C025	OM34P250C025
	32	25	OM33P250C032	OM34P250C032
	40	25	OM33P250C040	OM34P250C040
	50	25	OM33P250C050	OM34P250C050
	63	25	OM33P250C063	OM34P250C063
D Type charcteristics curve	80	25	OM33P250C080	OM34P250C080
	100	25	OM33P250C100	OM34P250C100
	125	25	OM33P250C125	OM34P250C125
Transient tripping 10-20In Mainly for distribution use in industrial power drive	50	25	OM33P250D050	OM34P250C050
	63	25	OM33P250D063	OM34P250C063
	80	25	OM33P250D080	OM34P250C080
	100	25	OM33P250D100	OM34P250C100

Power Consumption

Standard of EN60898



OM3 series maximum energy consumption, D curve, 1P



OM3 series maximum energy consumption, D curve, 1P

OM3 Mini Circuit Breaker

OM3 and the short circuit capacity of Fuse D0 or NH

1.4 high selectivity is up to 1.4kA; No selectivity

The selectivity of Fuse D01,D02,D03

MCB Rated current		Fuse gl rated current(A)(IEC269-1)					
		25	35	50	63	80	100
C characteristic curve	20	<0.5	1.0	2.0	2.9	3.9	7.6
	25		1.0	1.9	2.8	3.8	7.3
	32		1.0	1.8	2.7	3.6	7.0
	40			1.6	2.2	3.0	5.6
	50				2.1	2.8	5.2
	63					2.7	4.8
	80						4.3
	100						
	125						
D characteristic curve	20	<0.5	0.9	1.7	2.5	3.4	6.7
	25		0.9	1.6	2.3	3.2	6.2
	32		0.9	1.5	2.3	3.0	6.0
	40			1.4	2.0	2.6	4.7
	50				1.8	2.3	4.3
	63					2.1	3.7
	80						3.1
	100						

The selectivity of Fuse NH-00

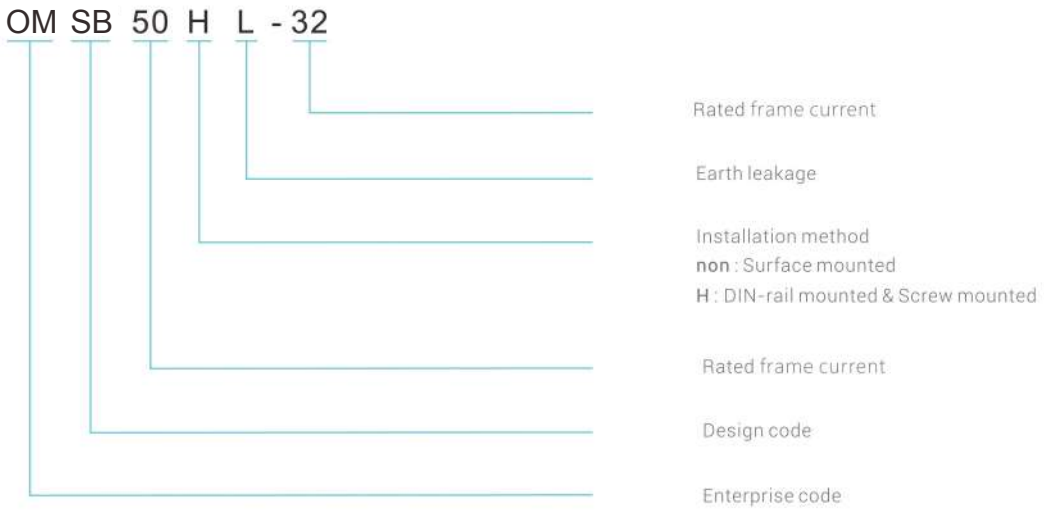
MCB Rated current		Fuse gl rated current(A)(IEC269-1)									
		25	35	40	50	63	80	100	125	160	200
C characteristic curve	20	<0.5	1.0	1.3	1.9	2.9	3.7	6.7	17.0	25.0	25.0
	25		0.9	1.3	1.8	2.8	3.5	6.5	17.0	25.0	25.0
	32		0.9	1.2	1.7	2.7	3.3	6.0	15.0	23.0	25.0
	40				1.4	2.2	2.9	4.8	12.0	18.0	25.0
	50					2.1	2.7	4.5	11.0	17.0	25.0
	63							4.2	10.0	15.0	25.0
	80							3.8	8.5	12.0	25.0
	100								7.0	10.0	25.0
	125									7.5	25.0
D characteristic curve	20	<0.5	0.8	1.1	1.5	2.3	3.1	5.6	16.0	25.0	25.0
	25		0.7	1.0	1.4	2.1	3.0	5.3	14.0	23.0	25.0
	32		0.7	1.0	1.3	2.1	2.9	5.0	13.0	22.0	25.0
	40				1.1	1.8	2.5	4.2	10.0	15.0	25.0
	50					1.6	2.3	3.8	8.5	13.0	22.0
	63						2.1	3.2	7.0	10.5	18.0
	80							2.8	5.5	8.4	15.0
	100								4.8	7.5	12.5

OMSB Safety Breaker

OMSB50 OMSBH

OMSB50L OMSB50HL

Model and Meanings

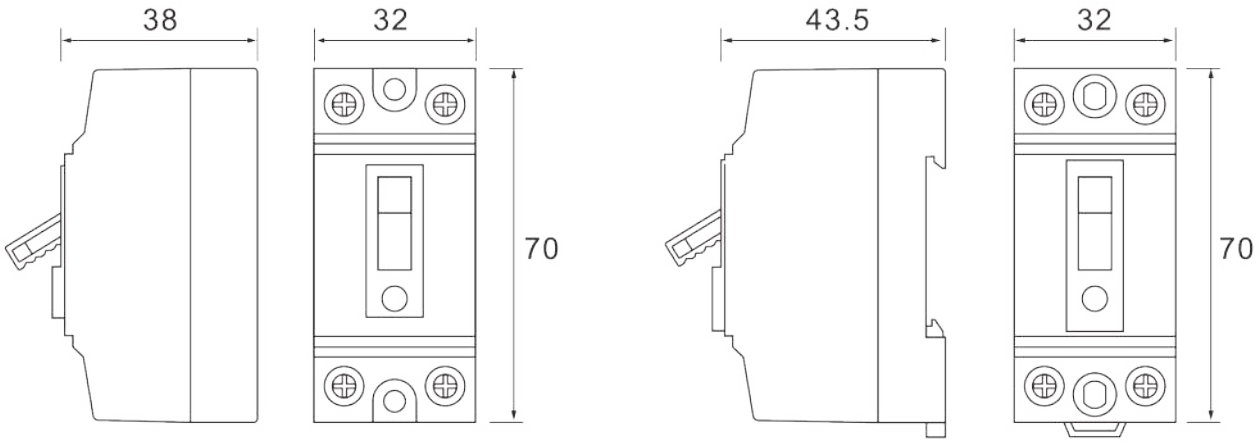


OMSB Safety Breaker

Technology Specification

Conform to standard	IEC 60947-2 GB/T 14048.2			
	OMSB50	OMSB50H	OMSB50L	OMSB50HL
Rated voltage	AC230V; 50/60Hz			
Rated breaking capacity	1.5kA			
Rated current	10A 15A 16A 30A 32A 40A			
Residual operation current (I∆n)	/	/	30mA	30mA
Case protection grade	Ip40			
Installation method		DIN-Rail Mounting		DIN-Rail Mounting
Electrical life	Not less of 8000 tmies switching aperation			

Outline and Installaiton Dimensions

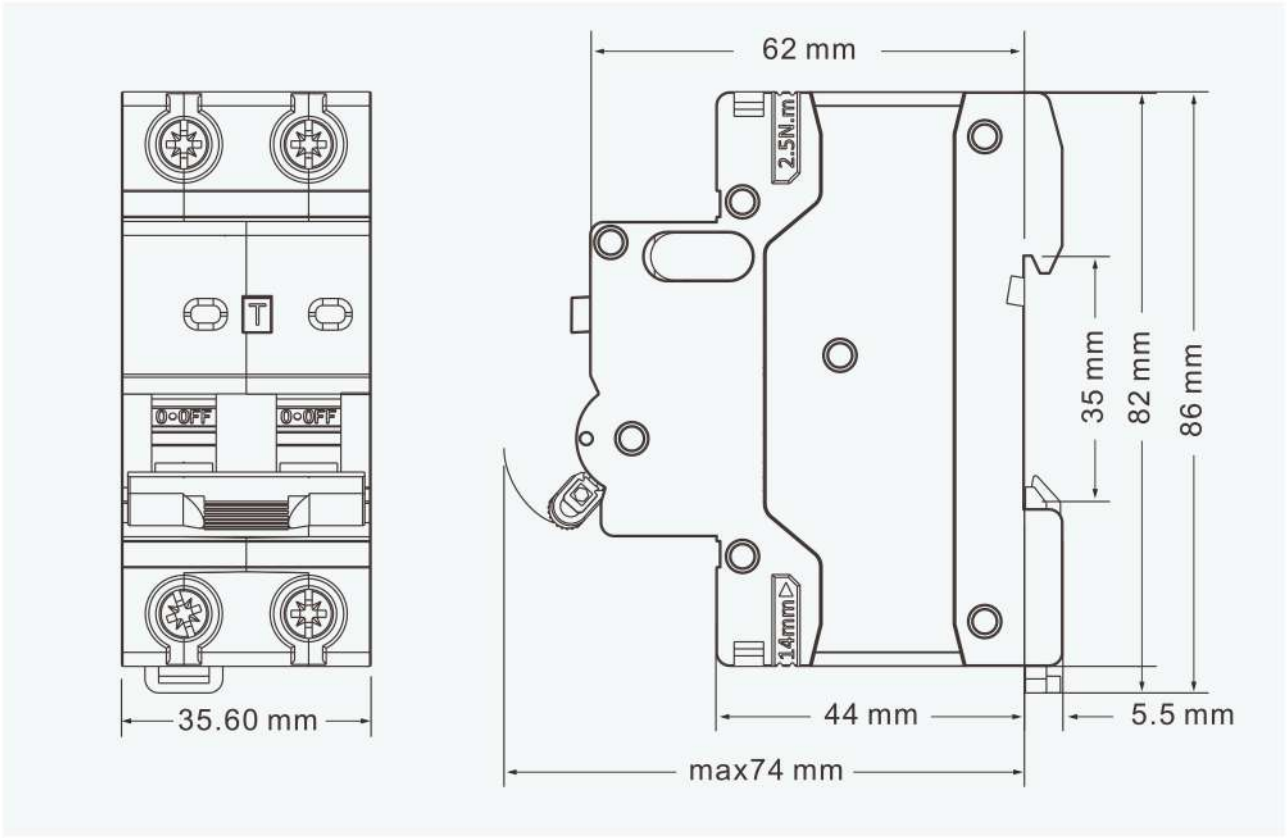


OML Residual Circuit Breaker With Overcurrent Protection

Application

This Electronic type 1P+N RCBO is widely used in Commercial, Residential and industrial applications orPower Distribution Units providing a good protection against earth fault/leakage current, short-circuit,overload, and function of isolation.

Outline and Installaiton Dimensions



OML Residual Circuit Breaker With Overcurrent Protection

Technology Specification

Technology Specification

Standards		IEC/EN 61009-1 AS/NZS 61009.1
Residual operating characteristics		A,AC
Pole No.		1P+N
Tripping curve		B,C
Rated current		6,10,13,16,20,25,32,40,50,63A(4.5kA/6kA)
		6,10,13,16,20,25,32,40A(10kA)
Rated voltage		230/240V~
Rated frequency		50/60Hz
Rated residual making and breaking capacity ($I_{\Delta}m$)		2000A
Rated residual operating current ($I_{\Delta}n$)		30,100,300mA
Rated short-circuit capacity (Icn)		4.5kA / 6kA / 10kA
Energy limiting classes		3
Rated impulse voltage breakdown type limit		4kV
Serivce life (O~CO)	Mechanical life	20000
	Standard value	8500
	Electrical life	10000
	Standard value	1500
Protection grade	All sides	IP40
	Connection prot	IP20
Rated insulation voltage		690V
Handle lock		ON/OFF position
Connection ability		1~35mm^2
Use ambient temperature		-30~+70°C
Humidity and heat resistance		2
Altitude		≤2000
Relative humidity of air		+20°C≤95%, +40°C≤50%
Pollution grade		3
Installation enviroment		Without significant vibration and impact
Installation category		III
Installation mode		DIN standard guide rail

OML Residual Current Circuit Breaker

Technology Specification

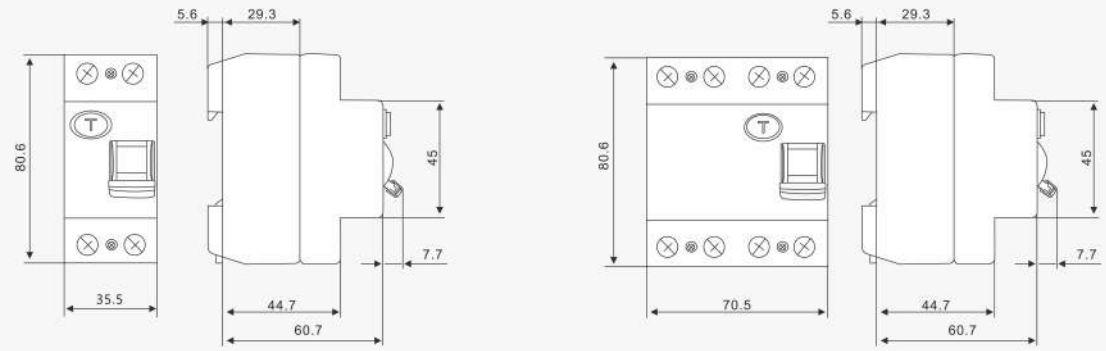
Conform to standard	IEC61008(EN61008)、GB/T 16916.1
Earth leakage motion time	☐Non-Extent time G Least 10ms Extent time S Least 40ms, Exteng time, selectivity6-40A
Rated voltage	230/400V; 50/60Hz
Rated current	16,25,40,63A
Rated earth leakage current	10,30,100,300,500mA
Be senstive to capability	AC Type A Type
Brief while able current	Contactor 63A Fuse
	Contactor 80A Fuse(F7-80)
Resist clime condition power	Standard of IEC61008
Case protection grade	IP40 (Install after)
Electrical life	Not less of 4000 times switching aperation
Moto life	Not less of 20000 times switching aperation

OML Residual Current Circuit Breaker

Mechanical Parameters

Installation mode	The standard IEC rail
Terminal block capability	Conductor1-25mm^2; Generatrix thickness 0.8-2mm
Enclosure width	(2 pole)35mm; (4 pole)70mm

Outline and Installaiton Dimensions



Unless specifi ed otherwise: The width of two-step swithc is two modulus, Four-step(3P+N) is four mdulus

Main Feature

Bilateral double-functional wiring terminal can connect generatrix and single core wire.

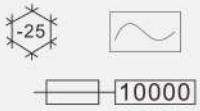
With contactor condition indicator

Various current specifications of creepage action can easily ensure selective protection.

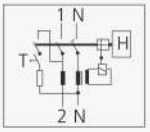
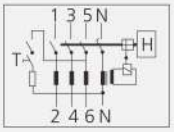
For prevention from unexpected trip due to swtich operations of electric equipment

OML Residual Current Circuit Breaker

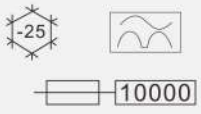
Motion function is not related to main circuit voltage, suitable for leakage or auxiliary protection.



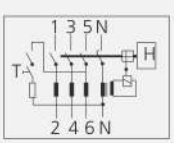
To prevent the false tipping caused by the switching operation of electronical equipment.

2P			4P		
					
Rated current(A)	Rated leakage current		Rated current(A)	Rated leakage current	
16	0.01	OML0102P16	25	0.03	OML0304P25
25	0.03	OML0302P25	25	0.10	OML1004P25
25	0.10	OML1002P25	40	0.03	OML0304P40
40	0.03	OML0302P40	40	0.10	OML1004P40
40	0.10	OML1002P40	40	0.30	OML3004P40
63	0.03	OML0302P63	40	0.50	OML5004P40
63	0.10	OML1002P63	63	0.03	OML0304P63
63	0.30	OML3002P63	63	0.10	OML1004P63
80	0.10	OML1002P80	63	0.30	OML3004P63
80	0.30	OML3002P80	63	0.50	OML5004P63
			80	0.10	OML1004P80
			80	0.30	OML3004P80
			80	0.50	OML5004P80

Motion function is not related to main circuit voltage, suitable for leakage or auxiliary protection.



To prevent the false tipping caused by the switching operation of electronical equipment.

2P			4P		
					
Rated current(A)	Rated leakage current		Rated current(A)	Rated leakage current	
16	0.01	OML0102P16A	25	0.03	OML0304P25A
25	0.03	OML0302P25A	25	0.10	OML1004P25A
25	0.10	OML1002P25A	25	0.30	OML3004P26A
25	0.30	OML3002P25A	40	0.03	OML0304P40A
40	0.03	OML0302P40A	40	0.10	OML1004P40A
40	0.10	OML1002P40A	40	0.30	OML3004P40A
40	0.30	OML3002P40A	63	0.03	OML0304P63A
63	0.03	OML0302P63A	63	0.10	OML1004P63A
63	0.10	OML1002P63A	63	0.30	OML3004P63A
63	0.30	OML3002P63A	80	0.10	OML1004P80A
80	0.03	OML0302P80A	80	0.30	OML3004P80A
80	0.10	OML1002P80A			
80	0.30	OML3002P80A			

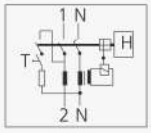
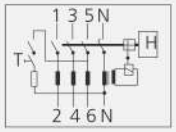
OML Residual Current Circuit Breaker

Motion function is not related to main circuit voltage, suitable for leakage or auxiliary protection.

-25

10000

To prevent the false tipping caused by the switching operation of electronical equipment.

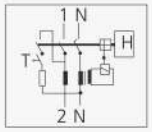
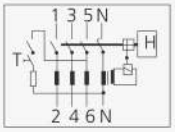
2P			4P		
					
Rated current(A)	Rated leakage current		Rated current(A)	Rated leakage current	
25	0.03	OML0302P25G	40	0.03	OML0304P40G
25	0.10	OML1002P25G	40	0.10	OML1004P40G
40	0.03	OML0302P40G	63	0.03	OML0304P63G
40	0.10	OML1002P40G	63	0.10	OML1004P63G
			80	0.10	OML1004P80G

Motion function is not related to main circuit voltage, suitable for leakage or auxiliary protection.

-25

10000

To prevent the false tipping caused by the switching operation of electronical equipment.

2P			4P		
					
Rated current(A)	Rated leakage current		Rated current(A)	Rated leakage current	
40	0.10	OML0302P40S	25	0.10	OML1004P25S
40	0.30	OML1002P40S	25	0.10	OML1004P25S
			40	0.10	OML1004P40S
			40	0.10	OML1004P40S
			40	0.30	OML3004P40S
			40	0.30	OML3004P40S
			63	0.10	OML1004P63S
			63	0.10	OML1004P63S
			63	0.30	OML3004P63S
			63	0.30	OML3004P63S

OML Residual Circuit Breaker With Overcurrent Protection

Technology Specification

Conform to standard	IEC61009(EN61009)、GB/T 16917.1
Trip time	☐Non-Extent time
	G Minimal 10ms time delay
Rated voltage	230V; 50Hz 230V/400V
Rated breaking capacity	10,30,100,300mA
Be senstive to capability	AC Type A Type
Selection grade	3
Rated breaking capability	10kA
Rated current	6-40A
Tripping character	B,C,D B,C,D characteristic curve
Maximum connected fuse	100AgI (>10kA)
Resist clime condition power	Standard of IEC61008
Case protection grade	IP40 (Install after)
Electrical life	Not less of 4000 times switching aperation
Moto life	Not less of 20000 times switching aperation

Mechanical Parameters

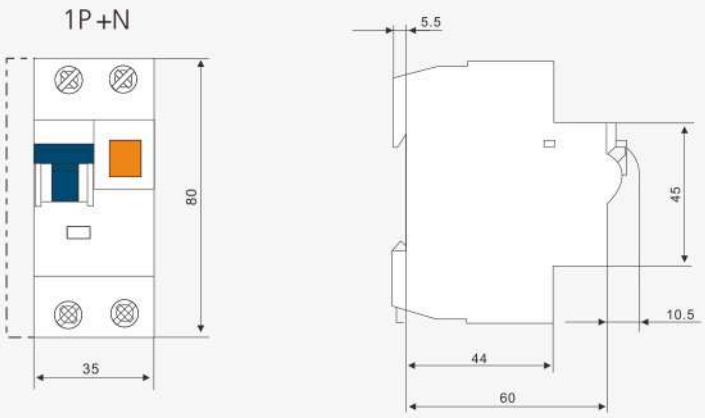
Installation mode	Installation at the DIN guide rail of 35mm
Terminal block capacity	Conductor 1-25mm^2
	Generatrix thickness 0.8-2mm
Case height	35mm(1P+N)

OML Residual Circuit Breaker With Overcurrent Protection

Accessories

Contact with alarm indication	(Refer to P33)
Shunt release	(Refer to P33)
Long-distance disengaging templet	(Refer to P34)
Undervoltage release	(Refer to P34)

Outline and Installaiton Dimensions



Note: 1P+N is a two module width

Main Feature

Action function independent of the voltage of main circuit

The neutral line breaking could make the device safer and more reliable

Dual function terminal block, strong wiring ability

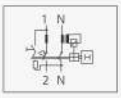
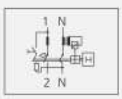
With contact status indicator for easy identification of contact situation

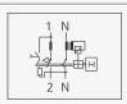
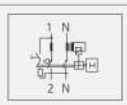
Different handle color indicates different rated current

Breaking capacity up to 10KA

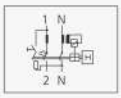
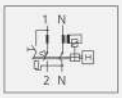
Wide rated current scope to serve as general switch at home service.

OML Residual Circuit Breaker With Overcurrent Protection

	1P+N			1P+N		
Integration of three protection functions of leakage, overload and short-circuit	☐ Surge protection 250A -25			A Surge protection 250A Pulsating DC sensitivity -25		
	Rated current(A)	Rated leakage current		Rated current(A)	Rated leakage current	
To prevent the false tipping caused by the switching operation of electronical equipment. C Type charcteristics curve 10000 3	6	0.01	OML0101PNC06	6	0.01	OML0101PNC06A
	10	0.01	OML0101PNC10	10	0.01	OML0101PNC10A
	16	0.01	OML0101PNC16	16	0.01	OML0101PNC16A
	6	0.03	OML0301PNC06	6	0.03	OML0301PNC06A
	10	0.03	OML0301PNC10	10	0.03	OML0301PNC10A
	16	0.03	OML0301PNC16	16	0.03	OML0301PNC16A
	20	0.03	OML0301PNC20	20	0.03	OML0301PNC20A
	25	0.03	OML0301PNC25	25	0.03	OML0301PNC25A
	32	0.03	OML0301PNC32	32	0.03	OML0301PNC32A
	40	0.03	OML0301PNC40	40	0.03	OML0301PNC40A
	6	0.3	OML3001PNC06	6	0.3	OML3001PNC06A
	10	0.3	OML3001PNC10	10	0.3	OML3001PNC10A
	16	0.3	OML3001PNC16	16	0.3	OML3001PNC16A
	20	0.3	OML3001PNC20	20	0.3	OML3001PNC20A
	25	0.3	OML3001PNC25	25	0.3	OML3001PNC25A
	32	0.3	OML3001PNC32	32	0.3	OML3001PNC32A
	40	0.3	OML3001PNC40	40	0.3	OML3001PNC40A

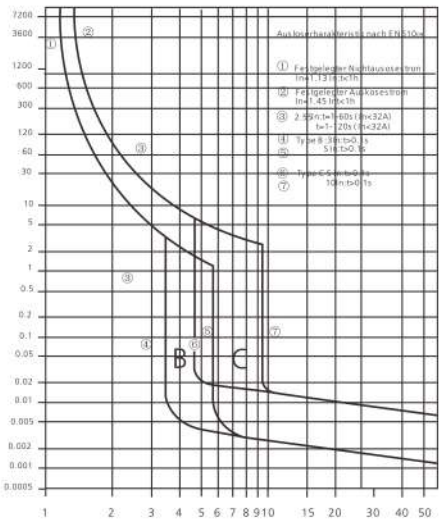
	1P+N			1P+N		
Integration of three protection functions of leakage, overload and short-circuit	☐ Surge protection to 3kA -25			G Surge protection to 3kA -25		
	Rated current(A)	Rated leakage current		Rated current(A)	Rated leakage current	
To prevent the false tipping caused by the switching operation of electronical equipment. C Type charcteristics curve 10000 3	16	0.03	OML3001PNC16G	16	0.03	OML0301PNC16G
	20	0.03	OML3001PNC20G	20	0.03	OML0301PNC20G
	25	0.03	OML3001PNC25G	25	0.03	OML0301PNC25G
	32	0.03	OML3001PNC32G	32	0.03	OML0301PNC32G
	40	0.03	OML3001PNC40G	40	0.03	OML0301PNC40G

OML Residual Circuit Breaker With Overcurrent Protection

	2P			2P		
Integration of three protection functions of leakage, overload and short-circuit	☐ Surge protection 250A 			Surge protection 250A Pulsating DC sensitivity 		
	Rated current(A)	Rated leakage current		Rated current(A)	Rated leakage current	
To prevent the false tipping caused by the switching operation of electronical equipment.	6	0.03	OML0302PC06	6	0.03	OML0302PC06A
	10	0.03	OML0302PC10	10	0.03	OML0302PC10A
	16	0.03	OML0302PC16	16	0.03	OML0302PC16A
	20	0.03	OML0302PC20	20	0.03	OML0302PC20A
	25	0.03	OML0302PC25	25	0.03	OML0302PC25A
	32	0.03	OML0302PC32	32	0.03	OML0302PC32A
C Type charcteristics curve 	6	0.3	OML3002PC06			
	10	0.3	OML3002PC10			
	16	0.3	OML3002PC16			
	20	0.3	OML3002PC20			
	25	0.3	OML3002PC25			
	32	0.3	OML3002PC32			
	40	0.3	OML3002PC40			

Load Capability

Charcteristic curve Tripping



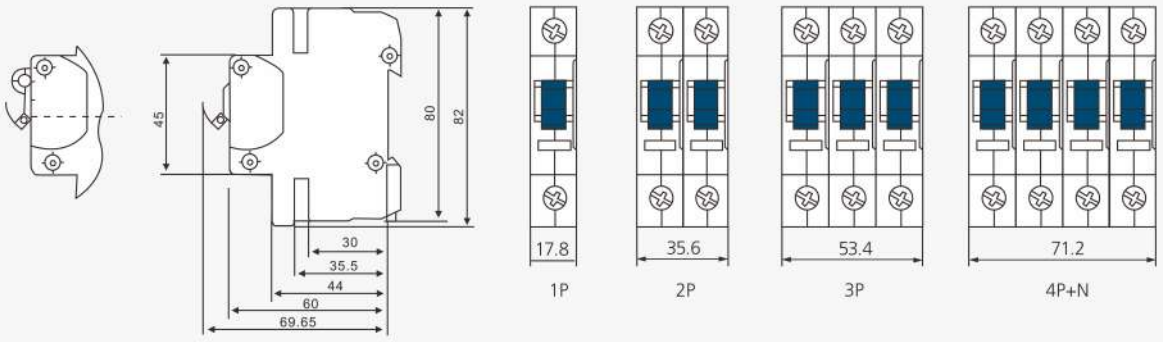
The influence of ambient temperature change to the load

	Environment T(°C)								
In [A]	-25	-20	-10	0	10	20	30	35	40
2	2.5	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9
4	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9
5	6.2	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8
6	7.4	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8
8	9.9	9.6	9.3	9.0	8.7	8.4	8.0	7.9	7.7
10	12	12	12	11	11	10	10	9.9	9.7
12	15	14	14	13	13	13	12	12	12
13	16	16	15	15	14	14	13	13	13
15	19	18	17	17	16	16	15	15	15
16	20	19	19	18	17	17	16	16	15
20	25	24	23	22	22	21	20	20	19
25	31	30	29	28	27	26	25	25	24
32	40	38	37	36	35	33	32	32	31
40	49	48	45	45	43	42	40	39	39

OMX Isolating Switch

Rated voltage	240V/415V
Frequency	50/60Hz
Short circuit durability	After 100A current, the spare fuse reaches 25kA
Making & Breaking capacity	1.2In.:1.1Ue
Style of use	AC22
Coupling wire section	Max.50mm^2
Case protection grade	IP40 (After installation)
Isolation	According to specifi c switch location state

Outline and Installaiton Dimensions



Main Feature

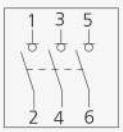
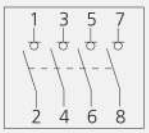
Double-functioned terminals

With contactor condition indicator

Lock attachable, with its hole diameter of 6mm or more

OMX Isolating Switch

		1P	2P
Used as main switch in the industrial, business or civil electric circuits Struchure features IEC947.3(EN60947.3)			
OAHK OMD7	Rated current In(A)		
	40 63 80 100	OMX1P040 OMX1P063 OMX1P080 OMX1P100	OMX2P040 OMX2P063 OMX2P080 OMX2P100

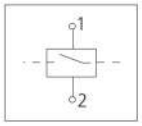
		3P	4P
Used as main switch in the industrial, business or civil electric circuits Struchure features IEC947.3(EN60947.3)			
	Rated current In(A)		
	40 63 80 100	OMX3P040 OMX3P063 OMX3P080 OMX3P100	OMX4P040 OMX4P063 OMX4P080 OMX4P100

OM3 Series Accessory

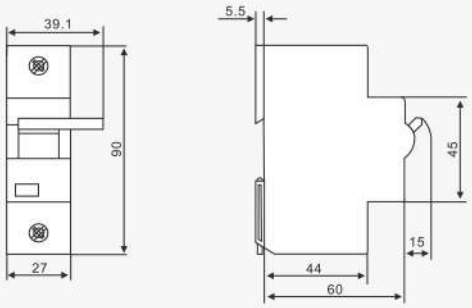
Technology Specification

Type	OM3ASA230	OM3ASA24
Operating voltage range	110-415VAC / 110-220VDC	12-60VAC
Maximal current consumption	3.6A	44A

OM3 Shunt release:1.5 modulus



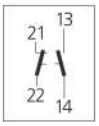
Switch location display: red/green
Minimal operation power supply: 90VA (OM3ASA24)



Technology Specification

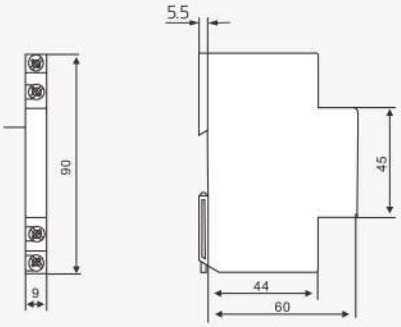
Type	OM3K
Function	1NO+1NC
Working current	6A/230VAC

OM3 Auxiliary contact:0.5 modulus



Standard: IEC947-5-1
Minimal operation voltage of contact: 24V DC

AC13: 6A 250V
2A 440V
DC13: 6A 250V
2A 440V



Technology Specification

Type	VLV-35-3pool-30mm	OM3SPE
Name	Tier bus 35mm²	Switch interlock mm²

OM3Z Series Accessory

Technology Specification

Type	OM3Z-HK	OM3Z-AHK
Operating voltage range	1NO+1NC	1NO+1NC
Maximal current consumption	6A/230V	4A/230V

OM3Z-HK
AC13: 6A/250V
2A/440V

DC13: 4A/60V
2A/110V
0.5/230V

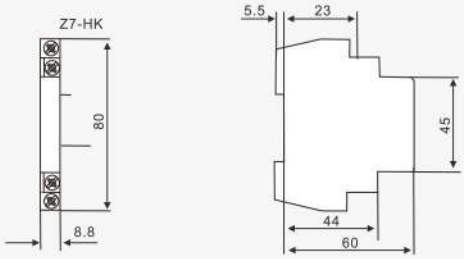
OM3Z-HK
AC13: 3A/250V

DC13: 0.5/110V

Standard: IEC947-5-1
Rated voltage: 250/440V; 50/60Hz
Connection capacity: 2X2.5mm²
OM3L,OM3N, OML , OM3N
OM3Z-AHK
OM3D,OM3,OM3Z

Auxiliary contact: 0.5 modulus

OM3Z-AHK



Technology Specification

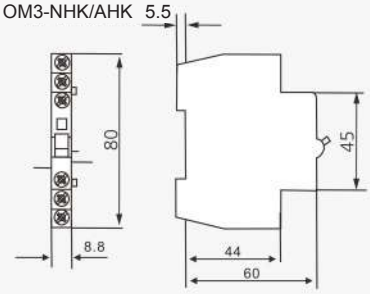
Type	OM3Z-NHK
Function	1NO+1NC
Working current	2A/230V

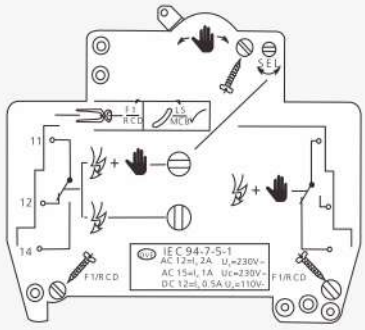
Standard: IEC947-5-1
Rated voltage:230V; 50/60Hz
Connection capacity: 2X2.5mm²
Malfunction trip indication blue/white
With the function of manfunction trip and testing

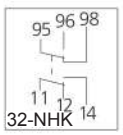
OM3Z-AHK
AC12/15: 2A/440V
DC12:0.5A 110V

With alarm indicating contactor
OM3Z-NHK 0.5 moduluss

OM3-NHK/AHK







32-NHK

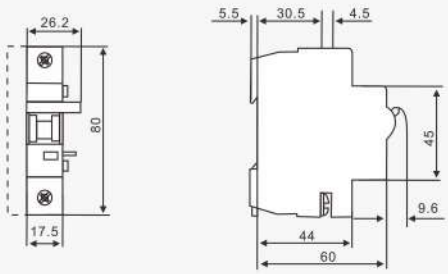
OM3Z Series Accessory

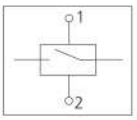
Technology Specification

Type	OM3-ASA230	OM3-ASA24
Operating voltage range	110-415VAC 110-220VDC	12-110VAC 12-60VAC

Shunt trip 1modulus

OM3 OML and UKD7 can be installed on with remote control trip
Installed with auxiliary switches of OM3Z-AHK and OM3Z-NHK simultaneously
Swithc location display:red/green





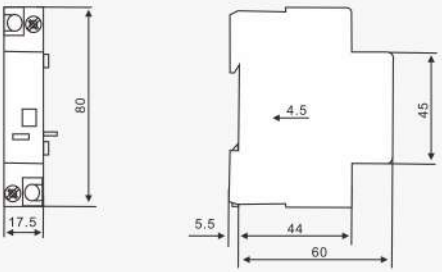
Technology Specification

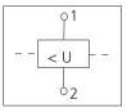
Type	OM3Z-USA115	OM3Z-USA230	OM3Z-USA400
Rated voltage	115VAC	230VAC	400VAC

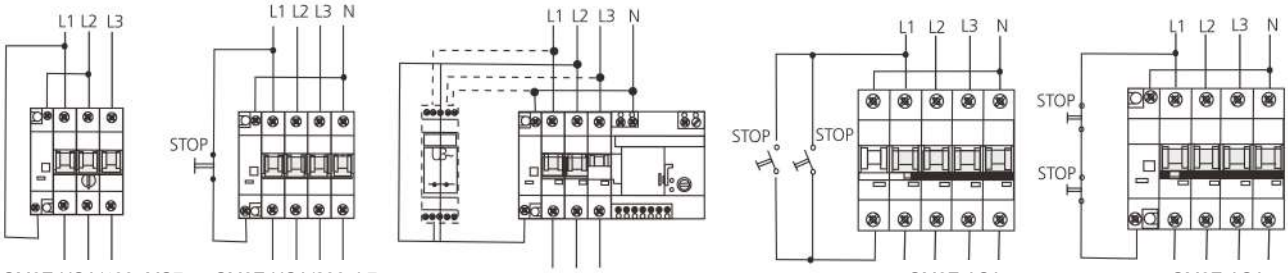
Under-voltage trip 1 modulus

Apply to: OM3, OM3N, OML
Instant snap installaiton on En50022 DIN guiding track

Starting terminal
Terminals: 1-2x2.5mm²







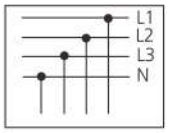
OM3Z-USA/400+MS7 OM3Z-USA/230+L7 OM3Z-ASA OM3Z-ASA

The Parent Row For The 7 Series, OM3Z Power Supply Connections

Technology Specification

Type	Rated Current(A)	Connection method
OM3ZV-L1,N	50	L1,N
OM3ZV-L2,L3	50	L2,L3
OM3ZV-N1,STE	50	(1.5
OM3ZV-S,N	50	1
OM3ZV-S - 80A	80	1
OM3ZV-L1,N-80A	80	L1,N
OM3ZV-L2,L3-80A	80	L2,L3
OM3ZV-ADP	80	Shell 1 meter long
OM3ZV-AEK	80	End cover Min.ordering quantity: 10 purchase

Socket bus bar system 50A, 80A

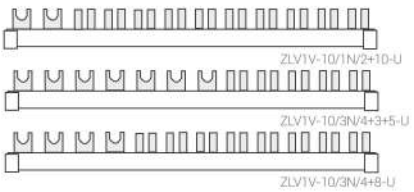


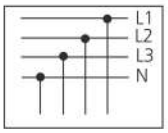
Design to VDE standard
Suitable for combined installation with different pole numbers and products
Rated voltage: 230/400V, 50Hz
Rated current: 50/80A
Short circuit capacity: 15kA
Copper bus bar section: 16mm²: 50A
Copper bus bar section: 25mm²: 80A

Type	Rated Current(A)	Connection method
OM3ZV-10-1P-1TE	63	Bus bar: 1 meter
OM3ZV-10-3P-3TE	63	
OM3ZV-16-1TE	80	
OM3ZV-16-1P+N-2TE	80	
OM3ZV-16-3P-31TE	80	
OM3ZV-16-3P+N-4TE	80	
OM3ZV-10-AK2+3P	*	End cover
OM3ZV-16-AK2+3P	*	Min.ordering quantity: 10 purchase
OM3ZV-16-AK4P		

$10mm^2$, $16mm^2$
Bus bar:$10mm^2$, $16mm^2$(crossing model)

Design to VDE standard
Rated voltage: 230/400V, 50Hz
Rated voltage: 230/400V, 50Hz
Bus row length of the modulus 12





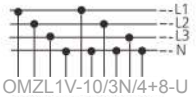
For OM3N (1 of the models for a few) Busbars $10mm^2$

Technology Specification

Type	Connection method	
OM3ZV-10/1N/2+10-U	Busbar (bottom incoming line) F1-2P+10x	OM3N
OM3ZV-10/3N/4+8-U	Busbar (bottom incoming line) F1-4P+8x	OM3N
OM3ZV-10/3N/4+3+5-U	Busbar (bottom incoming line) F1-4P+3xL+5x	OM3N
OM3ZV-AK/1N	End cover (OMZLV1V-10/1N/)	
OM3ZV-AK/3N	End cover (OMZLV1V-10/1N/)	
OM3ZV-25-L	Additional terminals 25mm *Min.ordering quantity:10 purchase	

$10mm^2$, $16mm^2$
Bus bar:$10mm^2$, $16mm^2$(crossing model)

Design to VDE standard
Rated voltage: 230/400V, 50Hz
Rated current: 80/63A
Short circuit capacity: 10(6)kA
Copper bus bar section: 10/16mm²



OMZL1V-10/3N/4+8-U

OM4 Miniature Circuit Breaker

Application

OM4 series miniature circuit breaker (hereinafter called MCB) is suitable for operating in the distribution line of AC 50Hz, rated voltage up to 400V, rated current up to 100A to protect electric equipment against over-current, also used to switch the line non-frequently. If requested, this breaker can add the accessory of control tripping by signaling, to perform remote opening or auto controlling tripping. At present the tripping device controlled by signal is widely used in IC card prepaid KWH meter. This breaker complies with GB/T 14048.2 standard “Low-voltage switchgear and controlgear-Part 2: Circuit-breakers”.

Model and Meanings

OM 4 -/ □ - □

- Tripping modes/curves
- Pole number(Neutral pole:N)
- Design code
- Miniature circuit breaker

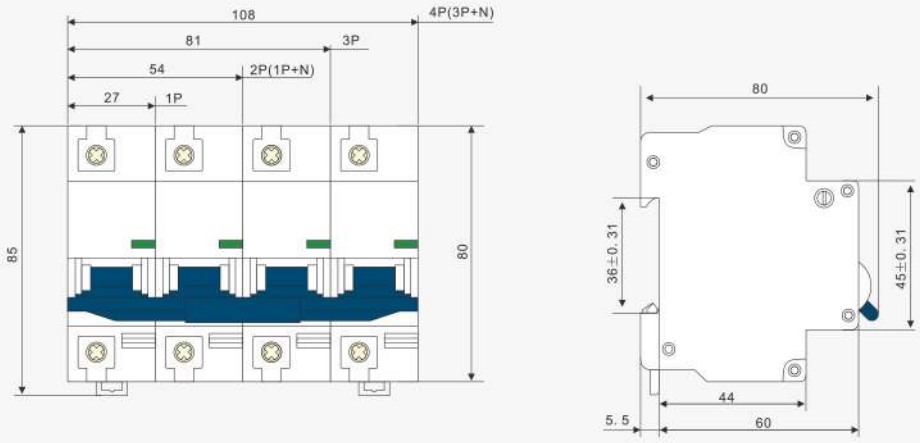
OM4 Miniature Circuit Breaker

Rated Current	1P	2P(1P+N)	3P	4P(3P+N)
63	OM41PC063	OM41PNC063	OM43PC063	OM43PNC063
80	OM41PC080	OM41PNC080	OM43PC080	OM43PNC080
100	OM41PC100	OM41PNC100	OM43PC100	OM43PNC100

Main technical specifi cations

1. Rated frame current Inm: 100A
2. Rated voltage Ue: 50Hz, 230V (1P, 1P+N), 400V (2P, 3P, 3P+N, 4P)
3. Rated current In: 63, 80, 100A
4. Rated breaking capacity: Icu=Ics=6000A
5. Pole number: 1P, 1P+N, 2P, 3P, 3P+N, 4P
6. Protective grade: IP20
6. Endurance: mechanical: 10000cycles, electrical: 7500 cycles.

Outline and Installaiton Dimensions



Notices when to purchase the product

When to purchase the products, please indicate the model, rated current, tripping mode, pole number, and qty.

For example: OM3 MCB, rated current 63A, tripping mode: C type, 3P, 100pcs

Written as:OM43PC100

OMLE Miniature Circuit Breaker

Application

OMLE1002PC100 / OMLE1002PC125 series residual current circuit breaker (hereinafter called RCBO) is suitable for operating in the distribution line of AC 50Hz, rated voltage up to 400A, rated current up to 125A, when someone happen to electric shock or the leakage current of system exceeds the limiting value, the RCBO will cut off the power surce transiently, to protect personnel safety and electric equipment, meanwhile it can protect the distribution line and motor against overloading or short circuit, also used to transfer the lines or start the motor non- frequently. This breaker complies with GB/T 14048.2, IEC60947.2standard.

Model and Meanings

OM LE - □ / □ □ - □ □ - □

- Rated residual tripping current (mA)
- Rated current
- Tripping modes/curves(B,C or D)
- When neutral line can't be opened (Keep being connected)
- G stand for over-voltage protection provided.
- Pole number
- Rated frame current (100, 125A)
- Special reproduction code(Electronic residual current circuit breaker)
- Miniature circuit breaker

OMLE100/125 Residual Circuit Breaker With Overcurrent Protection

Normal working and mounting conditions

1. The ambient temperature shall not exceed 40°C, and not less than -5°C, daily average not exceeds 35°C.
2. The altitude on mounting site not more than 2000m.
3. Relative humidity shall not exceed 50% at 40oC, at lower temperature, higher humidity allowed, for example 90% allowed at 25oC, if the breaker have dew on the product surface due to temperature change. It shall give the necessary solution.
4. Pollution grade: 2.
5. Mounting category: Class II, III
6. The breaker generally mounted on TH37-7.5 standard rail.
7. Outer magnetic field on mounting site shall not exceed 5 times of the geomagnetic field at any directions.
8. The breaker shall be vertically mounted, the sloping angle not exceed 5 degree, it have to push the handle up to ON position.
9. The breaker generally shall be mounted on the site where has no obvious impact or vibration.

Main technical specifi cations

Main technical data as table 1

Table 1

Rated frame current Inm (A)	Pole Number	Neutral line added	Rated current In (A)	Rated residual tripping current(mA)	Rated residual not tripping current(mA)	Rated short circuit making and breaking capacity		Rated residual making and breaking capacity(A)	Instantaneous tripping mode of over current
						Voltage(V)	Short circuit capacity		
100	1	N	63、80 100	30、50、75、100、300	15、25、38、50、150	230	6000A	2000	10In ± 20%
	2								
	3					400			
	3	N							
	4								
125	1	N	125	30、50、75、100、150、200、300	15、25、38、50、75、100 150	230			
	2								
	3					400			
	3	N							

2 1. Rasidual current tripping time of RCBO as table 2

Table 2

Category	1△n(mA)	1n(A)	Maxi(residual current)tripping time(s)				
			1△n	2I△n	5I△n	25mA	10I△n
Indirect contact	>30	Any ratings	0.2	0.1	0.04	–	0.04
Direct contact	≤30	Any ratings	0.1	0.1	–	0.04	0.04

Note: for the breaker with I△n 30mA, 10 I△n use 0.5A to replace

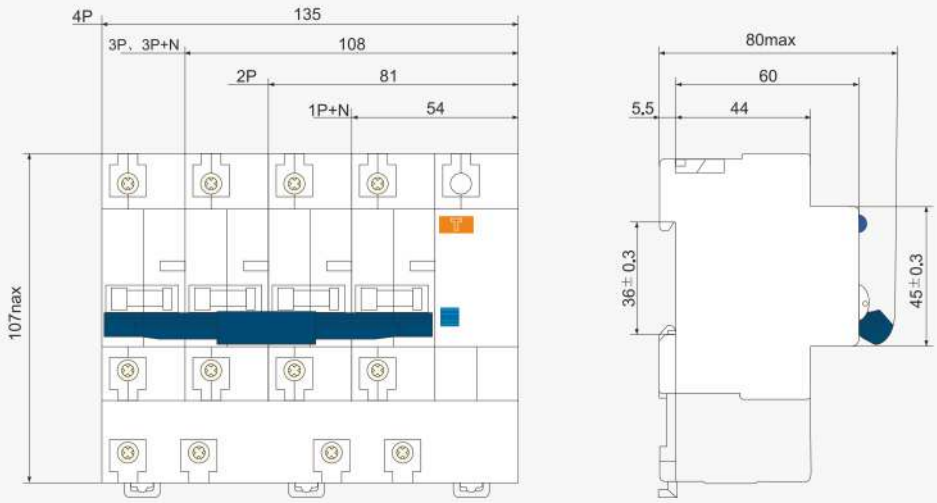
OMRB1PC100/125 Residual Circuit Breaker With Overcurrent Protection

3. Over-current tripping characteristics

Table 3

Instantaneous trip mode of over-current	Rated current In(A)	Initial status	Test current (A)	Specified time (t)	Prospectrive result
Inverse time limit protection	63、80、100、125	Cold status	1.05 In	≤2h	Not trip
		Follow the above test	1.30In	<2h	Tripped
Instantaneous tripping		Cold status	8In	≤0.2s	Not trip
			12In	<0.2s	Tripped

Outline and Installaiton Dimensions



OM4N Miniature Circuit Breaker

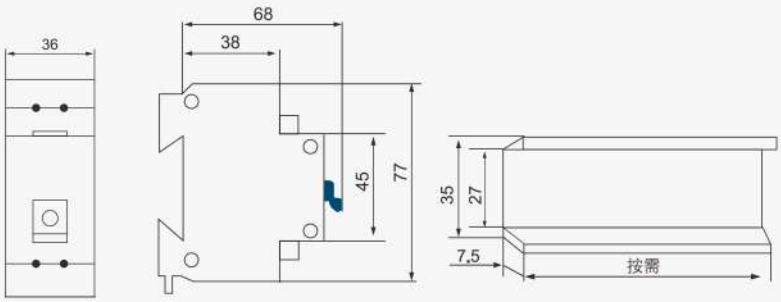
Application

OM4N1PNC32 series miniature circuit breaker (hereinafter called RCBO) is suitable for operating in the sigle phase distribution line of AC 50Hz, rated voltage up 230A,rated current up to 32A to protect electric equipment against overloading and short circuit. This breaker has the advantages of high breaking capacity, small size, width only 18mm. neutral and phase line will be cut off together, to avoid the wrong connection between phase and neutral lines or the potential between neutral point to earthing point hurt personnel body or lead to fire risk. This MCB complies with GB/T 10963 and IEC60898 standards.

Main technical specifi cations

1. Rated frame current Inm: 32A
2. Rated current In: 6, 10, 16, 20, 25, 32A
3. Pole number: 1+N
4. Rated voltage Ue: 230V
4. Rated breaking capacity Icn: 4500A

Outline and Installaiton Dimensions



Over-current tripping characteristics table

Test current (A)	Rated voltage(V)	Specified time (t)	Prospectrive result	Initial status	Note
1.13 In	All ratings	t≥1h	Not trip	Cold status	Current rise steadily up to specified value
1.45 In	All ratings	t<1h	Tripped	Hot status	Current rise steadily up to specified value
2.25 In	In≤32A	I<t<60s	Tripped	Cold status	Close auxiliary switch to conduct the current
5 In	All ratings	t≥0.1s	Not trip	Cold status	Close auxiliary switch to conduct the current
10 In	All ratings	t<0.1s	Tripped	Cold status	Close auxiliary switch to conduct the current

OMLN Residual Current Circuit Breaker

Application

OMLN series residual current circuit breaker (hereinafter called RCBO) is suitable for operating in the distribution line of AC 50Hz, rated voltage up to 230A, rated current up to 32A to protect personnel from indirect touching and protect theelectric lines of buildings or similar usr from over-current, also used as backup protection in case another over-current protector does not take action due to the continuous earthing fault, which may result in electric filre. The breaker with over- voltage protection device can protect the down-stream line or equipment from over -voltage fault caused by system problem. This series of RCBO is more and more widely used as the backup protection device for earthing fault, direct touching/electric shock, indirect electric shock and etc.

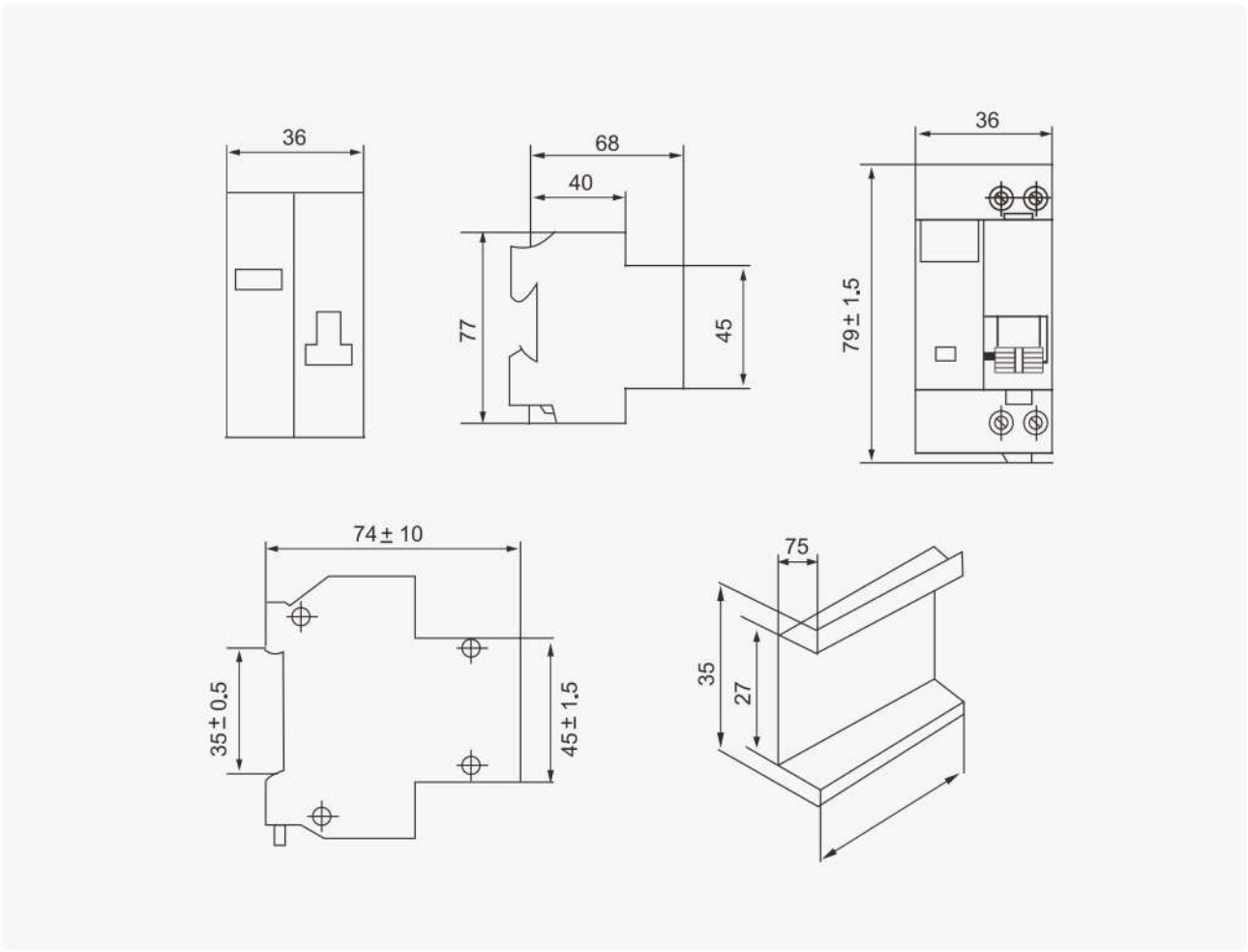
Main technical specifi cations

1. Rated frame current Inm: 32A
2. Rated current In: 6, 10, 16, 20, 25, 32A
3. Pole number: 1P+N
4. Rated voltage Ue: 230V
5. Rated residual tripping current(mA): 30mA
6. Rated residual not-tripping current(mA): 15mA
7. Rated residual tripping time: ≤0.1s
4. Rated breaking capacity Icn: 4500A

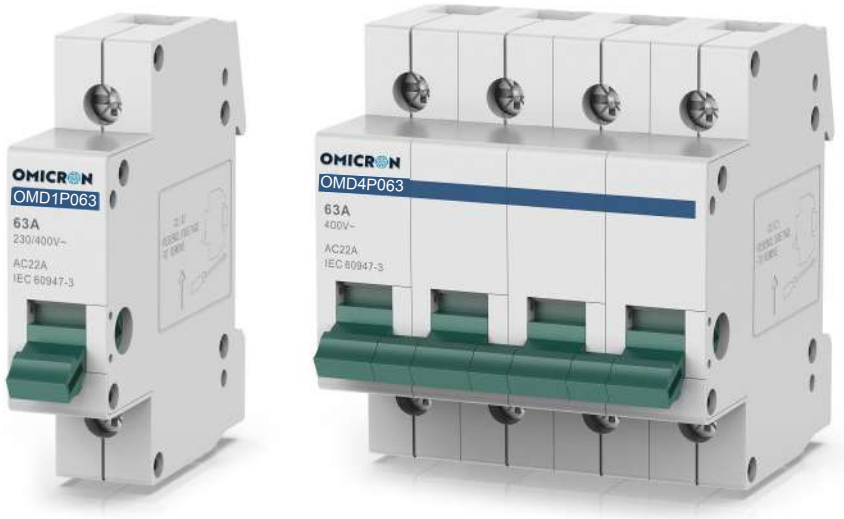
Over-current tripping characteristics table

Test current (A)	Rated voltage(V)	Specified time (t)	Prospectrive result	Initial status	Note
1.13 In	All ratings	t≥1h	Not trip	Cold status	Current rise steadily up to specified value
1.45 In	All ratings	t<1h	Tripped	Hot status	Current rise steadily up to specified value
2.25 In	In≤32A	I<t<60s	Tripped	Cold status	Close auxiliary switch to conduct the current
5 In	All ratings	t≥0.1s	Not trip	Cold status	Close auxiliary switch to conduct the current
10 In	All ratings	t<0.1s	Tripped	Cold status	Close auxiliary switch to conduct the current

Outline and Installaiton Dimensions



OMD Miniature Disconnector



Application

This disconnector is used in termination combined apparatus as main switch, operating in the distribution and control line of AC 50Hz, rated voltage 400A and below, meanwhile it can be widely used in industrial and mineral enterprises, high buildings, commercial or house locations.

Main technical specifi cations

Indication of reliable contact

Applicable standard: IEC60947-3 and GB14048.3

Mechanical endurance: I=20-30A: 300000 cycles

I=63A: 200000 cycles

I=100A: 100000 cycles

Electric endurance

AC22, p.f.=0.6

I=20-30A: 300000 cycles

I=63A: 200000 cycles

I=100A: 100000 cycles

Rated short time withstand current

12Ie 1second

Anti-moisture and hot: class2

Humidity 95% at 55oC

Terminal connection: with clamp, the cross area of cable available:

10mm2(for 20A and 30A, disconnector)

50mm2(for 63A and 100A, disconnector)

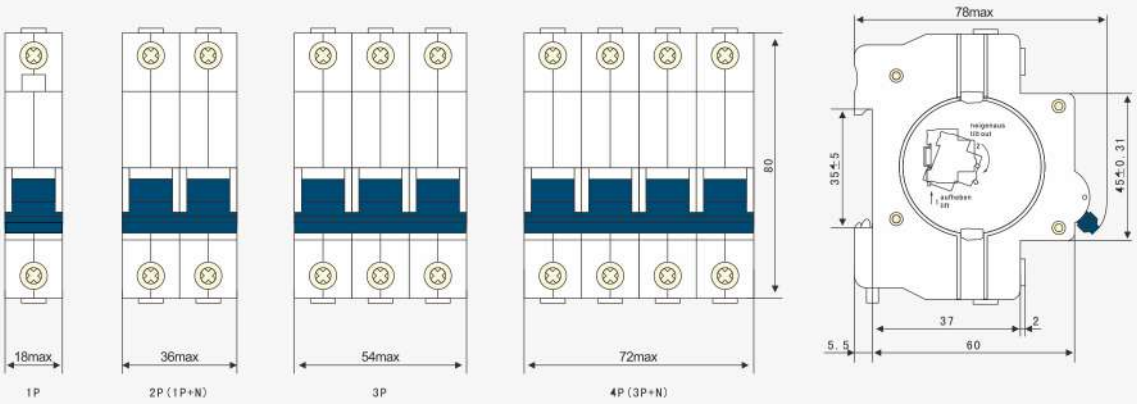
OMD Miniature Disconnector

Model and Meanings

OM D - □ /□

- (100,125A) Rated frame current
- Pole number
- Design code
- Miniature disconnector

Outline and Installaiton Dimensions



OMT12 Series (B Grade) Surge Protective Device

Application

OMT12 series B grade surge protective device (in short: OMT12, alias: surge protector, surge arrester) is suitable for TN-S, TN-C-S TT, IT etc. Power supply system of AC 50/60Hz, <1000V, and photovoltaic (PV) ac/dc power supply system, and used at the equipotential connection, which protects the electric network not shocked by the thunder and lightning, it's designed according to GB/T 18802.11, IEC 61643-11. It adopts 35mm standard rail, there is a failure release mounted on the module of surge protective device. When the OMT12 fails in breakdown for over-heat and over-current, the failure release will help electric device separate from the power supply system and give the indication signal, green means normal, red means abnormal. Kevin wiring mode, remote-signaling output interface. OMT12080 and OMT12100 Series surge protection module can be replaced online.

Model and Meaning

OM T12 – □ / □ / □

- Maximum Continuous Operating Voltage(V-)
- Pole: 1,2,3,4,1+N,2+N,3+N
- Maximum Discharge Current Imax(kA)
- Protection Grade
- Surge Protective Device

Application Scope and Installation Position

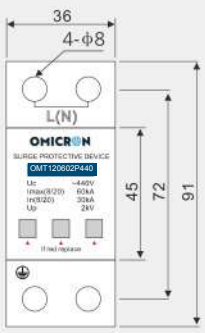
OMT12150/120/100 series surge protective devices are suitable for B grade lightning-proof, used at the equipotential connection of LPZOA or LPZOB and LPZ1 zone, which protects the electric network not shocked by the thunder. OMT12080/060 series surge protective devices are usually installed in low voltage main distribution box connected to the incoming end of the buildings. Notice: When you order our goods, please write the model and quantity carefully. For example: OMT120804P385 pieces.

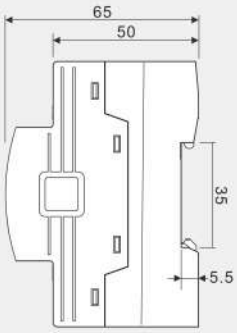
OMT12 Series (B Grade) Surge Protective Device

Technology Specification

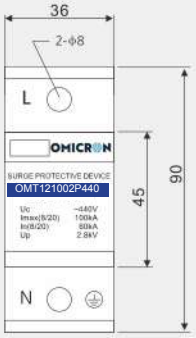
Type		OMT120602P275 OMT120602P385 OMT120602P440			OMT120802P275 OMT120802P385 OMT120802P440			OMT121002P275 OMT121002P385 OMT121002P440			OMT121202P275 OMT12120P385 OMT121202P440			OMT121502P275 OMT121502P385 OMT121502P440		
Maximum Continuous Operating Voltage Uc(V~)		275	385	440	275	385	440	275	385	440	275	385	440	275	385	440
Voltage Protection Level Up (kV)	LN	1.6	1.8	2	1.6	2.2	2.5	1.8	2.5	2.8	1.8	2.5	3.0	2.0	2.8	3.2
	NPE		1.5			1.5			2			2.5			3	
Nominal Discharge Current In(8/20 μ s) kA		30			40			60			80			100		
Maximum Discharge Current Imax (8/20 μ s) kA		60			80			100			120			150		
Response Time (ns)	LN	<25														
	NPE	<100														
Test Standard		GB/T 18802.11, IEC 61643-11														
Fuse or Switch (A)		63			63			63			125			125		
The Cross Section of L/N Line(mm²)		25			25			35			35			35		
The Cross Section of PE Line(mm²)		35			35			35			35			35		
The Line Section of Communication and Alarm(mm²)		⩾1.5														
Operating Environment(℃)		-40°C~+85°C														
Relative Humidity(25℃)		⩽95%														
Installation		Standard Rail 35mm														
Material of Outer Covering		Reinforced flame retardant PA66														

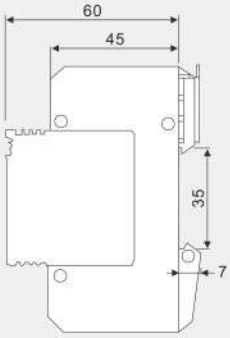
Outline and Installation Dimensions



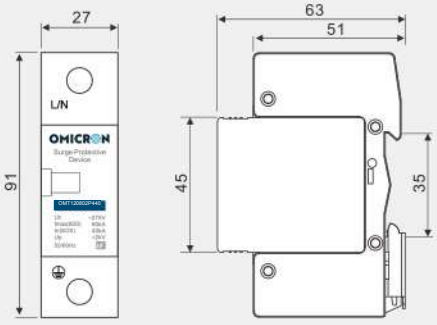


OMT12060





OMT12100



OMT12080

OMT1 Series (B Grade) Surge Protective Device

Application

OMT1 series B grade surge protective device (in short: OMT1, alias: surge protector, surge arrester) is suitable for TT, IT, TN-S, TN-C-S etc. Power supply system of AC 50/60Hz, <1000V, and photovoltaic (PV) ac/dc power supply system, installed on the joint of LPZOA or LPZOB and LPZ1, it's designed according to GB/T 18802.11, IEC 61643-11. It adopts 35mm standard rail, there is a failure release mounted on the module of surge protective device. When the OMT1 fails in breakdown for over-heat and over-current, the failure release will help electric device separate from the power supply system and give the indication signal, green means normal, red means abnormal. It's also could be replaced for the module when has operating voltage.

Model and Meaning

OM T1 -□/□/□

- Maximum Continuous Operating Voltage(V-)
- Pole: 1,2,3,4,1+N,2+N,3+N
- Nominal Discharge Current In (8/20 μs)kA
- Protection Grade
- Surge Protective Device

Product Features

Could be replaced for the module not need power cut.
Maximum current of endure the lightning-stroke 70kA(8/20 μ s)
Response time <25ns
The color of visible window shows operating status, green means normal, red means abnormal.

Application Scope and Installation Position

It's suitable for B grade lightning-proof OMT1025, OMT1035 series surge protective devices, installed on the joint of LPZ0A or LPZ0B and LPZ1, usually installed in low voltage main distribution box connected to the incoming end of the buildings.

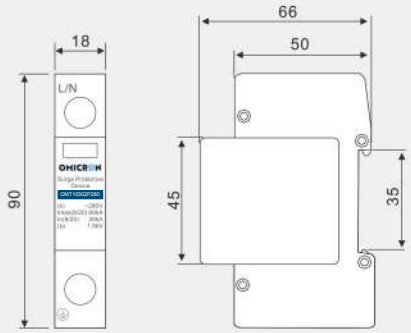
Notice: When you order our goods, please write the model and quantity carefully. For example: SPB-35/440/4, 8 pieces.

OMT1 Series (B Grade) Surge Protective Device

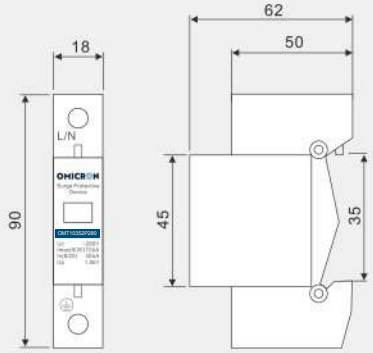
Technology Specification

Type		OMT10302P280 OMT10302P440				OMT10352P280 OMT10352P440			
Maximum Continuous Operating Voltage Uc(V~)		175	280	385	440	175	280	385	440
Voltage Protection Level Up (kV)	LN	0.8	1.5	1.8	2	0.8	1.5	1.8	2
	NPE			1.5				1.5	
Nominal Discharge Current In(8/20 μ s) kA		30				35			
Maximum Discharge Current Imax (8/20 μ s) kA		60				70			
Response Time (ns)	LN	<25							
	NPE	<100							
Test Standard		GB/T 18802.11, IEC 61643-11							
Fuse or Switch (A)		63				63			
The Cross Section of L/N Line(mm^2)		16				16			
The Cross Section of PE Line(mm^2)		25				25			
The Line Section of Communication and Alarm(mm^2)		≥1.5							
Operating Environment(℃)		-40°C~+85°C							
Relative Humidity(25℃)		≤95%							
Installation		Standard Rail 35mm							
Material of Outer Covering		Reinforced flame retardant PA66							

Outline and Installation Dimensions



OMT1030



OMT1035

OMT2 Series (C Grade) Surge Protective Device

Application

OMT2 series B grade surge protective device (in short: OMT2, alias: surge protector, surge arrester) is suitable for TT, IT, TN-S, TN-C-S etc. Power supply system of AC 50/60Hz, <1000V, and photovoltaic (PV) ac/dc power supply system, installed on the joint of LPZOA or LPZOB and LPZ1, it's designed according to GB/T 18802.11, IEC 61643-11. It adopts 35mm standard rail, there is a failure release mounted on the module of surge protective device. When the OMT2 fails in breakdown for over-heat and over-current, the failure release will help electric device separate from the power supply system and give the indication signal, green means normal, red means abnormal. It's also could be replaced for the module when has operating voltage.

Model and Meaning

OM T2- □ / □ / □

- Maximum Continuous Operating Voltage(V-)
- Pole: 1,2,3,4,1+N,2+N,3+N
- Nominal Discharge Current In (8/20 μs)kA
- Protection Code
- Surge Protective Device

Product Features

Inside over-current and over-heat protection, temperature control open circuit.
Module design, convenient installation, could be replaced online.
Smallness leak current, response quickly, less residual oltage.
Signal indication device, green means normal, red means abnormal.
New technology, highly energy, clearance discharge pole(N-PE).

Application Scope and Installation Position

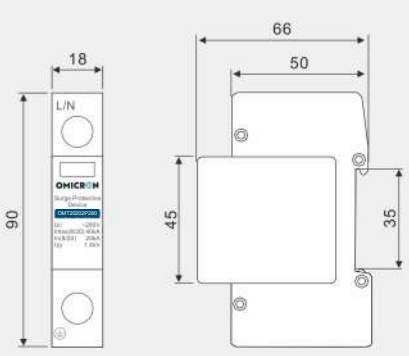
OMT2020,OMT2015,OM2T2020,OM2T2015 series surge protective devices applied in C grade lightning- proof, installed on the joint of LPZ1 or LPZ2 and LPZ3, usually installed in household distribution boards, computer equipment, information equipment, electronic equipment and in the socket box in front of control equipment or near the control equipment, the dispersion small villa should install SPD in the inhabitant distributing box. Notice: When you order our goods, please write the model and quantity carefully. For example: SPC -20/440/4, 8 pieces.

OMT2 Series (C Grade) Surge Potective Device

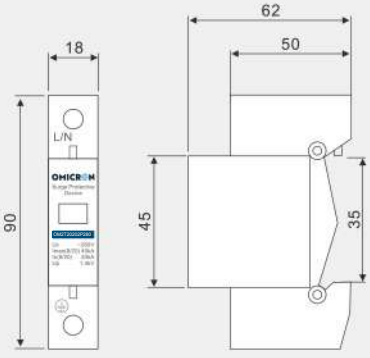
Technology Specification

Type		OMT2152P280/385/440 OM2T2152P280/385/440				OMT2202P280/385/440 OM2T2202P280/385/440			
Maximum Continuous Operating Voltage Uc(V~)		175	280	385	440	175	280	385	440
Voltage Protection Level Up (kV)	LN	1.0	1.4	1.7	2.0	1.0	1.4	1.7	2.0
	NPE			1.2				1.2	
Nominal Discharge Current In(8/20 μ s) kA		15				20			
Maximum Discharge Current Imax (8/20 μ s) kA		30				40			
Response Time (ns)	LN	<25							
	NPE	<100							
Test Standard		GB/T 18802.11, IEC 61643-11							
Fuse or Switch (A)		32				32			
The Cross Section of L/N Line(mm^2)		16				16			
The Cross Section of PE Line(mm^2)		25				25			
The Line Section of Communication and Alarm(mm^2)		≥1.5							
Operating Environment(°C)		-40°C~+85°C							
Relative Humidity(25°C)		≤95%							
Installation		Standard Rail 35mm							
Material of Outer Covering		Reinforced flame retardant PA66							

Outline and Installation Dimensions



OMT2



OMT2

OMT3 Series (D Grade) Surge Potective Device

Application

OMT3 series D grade surge protective device (in short: OMT3, alias: surge protector, surge arrester) is suitable for TN-S, TN-C-S TT, IT etc. Power supply system of AC 50/60Hz, 1000V, and photovoltaic (PV) ac/dc power supply system, and used at the equipotential connection, which protects the electric network not shocked by the thunder and lightning, it's designed according to GB/T 18802.11, IEC 61643-11. It adopts 35mm standard rail, there is a failure release mounted on the module of surge protective device. When the SPD fails in breakdown for over-heat and over-current, the failure release will help electric device separate from the power supply system and give the indication signal, green means normal, red means abnormal. Kevin wiring mode, remote-signaling output interface. OMT12080 and OMT12100 Series surge protection module can be replaced online.

Model and Meaning

OM T3 –□ / □ / □

- Maximum Continuous Operating Voltage(V~)
- Pole: 1, 2, 3, 4, 1+N, 2+N, 3+N
- Maximum Discharge Current Imax(kA)
- Protection Grade
- Surge Protective Device

Application Scope and Installation Position

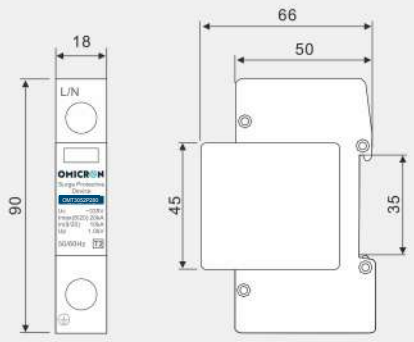
OMT3 series surge protective devices are suitable for B grade lightning-proof, used at the equipotential connection of LPZ0A or LPZ0B and LPZ1 zone, which protects the electric network not shocked by the thunder. OM2T3, OMT3 series surge protective devices are usually installed in low voltage main distribution box connected to the incoming end of the buildings. Notice: When you order our goods, please write the model and quantity carefully. For example: OMT3052P280 pieces.

OMT3 Series (D Grade) Surge Potective Device

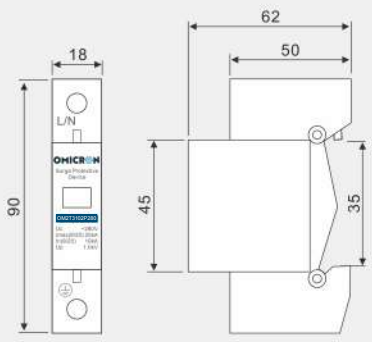
Technology Specification

Type		OMT3052P280 OM2T3052P280					OMT3062P280 OM2T3062P280 OM3T3072P280					OMT3102P280 OM2T3102P280				
Maximum Continuous Operating Voltage Uc(V~)		175	280	335	385	440	175	280	335	385	440	175	280	335	385	440
Voltage Protection Level Up (kV)	LN	0.8	1	–	1.5	1.8	0.8	1	1	1.5	1.5	0.8	1	1	1.5	1.5
	NPE				1.2					1.2					1.2	
Nominal Discharge Current In(8/20 μ s) kA		5					6/7					10				
Maximum Discharge Current Imax (8/20 μ s) kA		10					12/15					20				
Response Time (ns)	LN	<25														
	NPE	<100														
Test Standard		GB/T 18802.11, IEC 61643-11														
Fuse or Switch (A)		10					10					16				
The Cross Section of L/N Line(mm²)		6					6					10				
The Cross Section of PE Line(mm²)		10					10					16				
The Line Section of Communication and Alarm(mm²)		≥1.5														
Operating Environment(°C)		-40°C~+85°C														
Relative Humidity(25°C)		≤95%														
Installation		Standard Rail 35mm														
Material of Outer Covering		Reinforced flame retardant PA66														

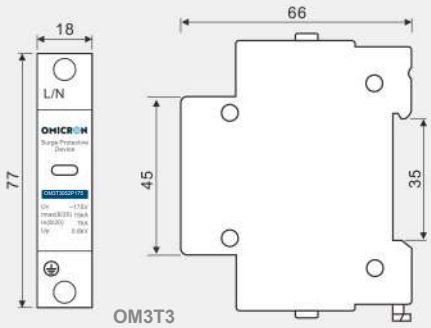
Outline and Installation Dimensions



OMT3



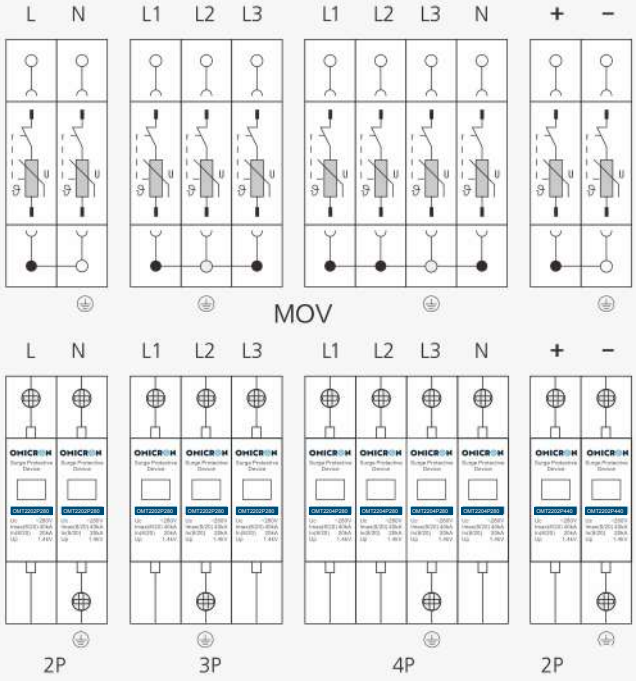
OM2T3



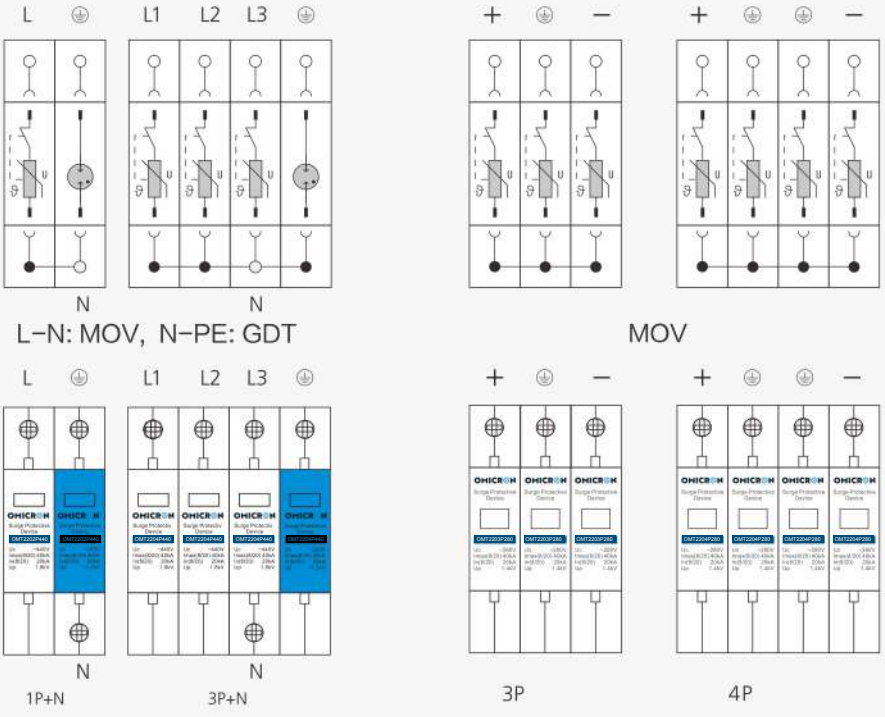
OM3T3

Surge Protective Device

Type and configuration diagram



Common mode surge protection

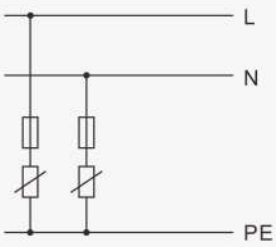


Differential mode surge protection

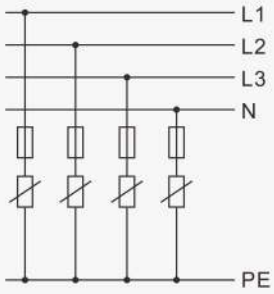
Common-Differential mode surge protection

Grade Surge Protective Device

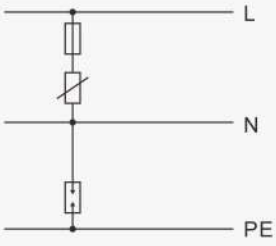
Connection Diagram



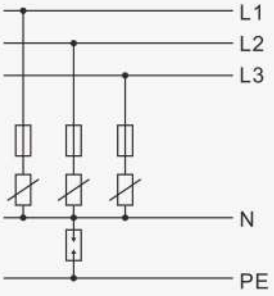
TN-S syetem 2P single-phase common mode



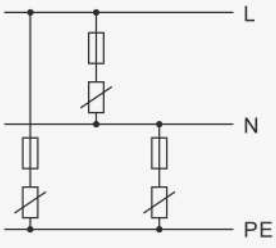
TN-S syetem 4P three-phase common mode



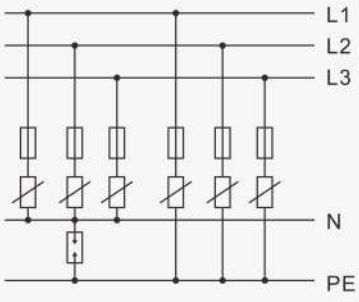
TN-S syetem 1P+N single-phase different mode



TT-S syetem 3P+N different mode (Discharge gap)



TN-S syetem 2+1 single-phase full protection mode



TT-S syetem 3P+N+3P three-phase full protection mode

Notes: ₿ That the Fuse or Circuit Breaker

OMF1 Series Fuse

Model and Meaning

OM F 1 - □

- Frame Current
- Design No.
- Product Code
- Enterprise Code

Application

This series of fuse support is applicable to AC 50HZ, rated insulation voltage up to 690V, and agreed heating current up to 125A. It is mainly used in electrical circuits as size up to 22 × 58. This series of fuse support has the ability to withstand the agreed heating current and the expected short-circuit impact current to 100kA dynamic and thermal stability, and has the function of isolating the power supply after multi-phase combination. It can also be equipped with a fuse indicator light, which indicates that the fuse link has been blown.

This series of fuse support meets the national standards GB13539.1 and GB/T13539.2 and IEC 60269-1 and IEC60269-2.

OMF1 Series Fuse

Product Features

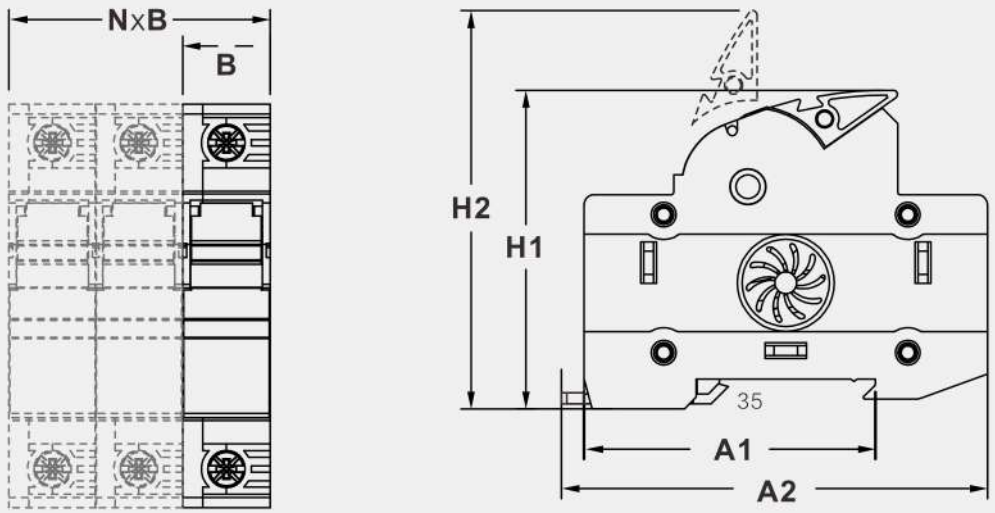
The fuse support of this series is made of plastic pressed shell with contact and fuse carrier, which can be riveted or welded to form a polyphone structure.

Technology Specification

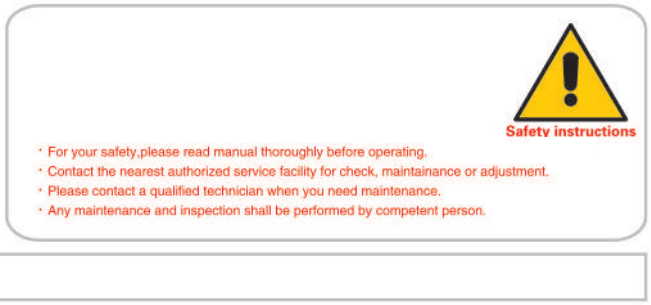
Product model	Size of Equipped Fuse Link	(V) Rated insulation Voltage	(A) Conventional Thermal Current	Weight	(mm) Overall Dimension				
					A1	A2	B	H1	H2
OMF1(1-2-3)P032	10 x 38	690	32	56	81	86	18	64	80
OMF1(1-2-3)P032X	10 x 38	690	32	56	81	86	18	64	80
OMF1(1-2-3)P063	14 x 51	690	63	96	96	96	27	76	91
OMF1(1-2-3)P063X	14 x 51	690	63	96	96	96	27	76	91
OMF1(1-2-3)P125	22 x 58	690	125	159	118	118	36	76.5	103
OMF1(1-2-3)P125X	22 x 58	690	125	159	118	118	36	76.5	103

Width of N-Phase Combination Bn=nB

Outline and Installation Dimensions



OMICRON


Safetv instructions
· For your safety,please read manual thoroughly before operating.
· Contact the nearest authorized service facility for check, maintainance or adjustment.
· Please contact a qualified technician when you need maintenance.
· Any maintenance and inspection shall be performed by competent person.