Application



RDM108 series Moulded Case Circuit Breaker, is applied to the circuit of AC50Hz/60Hz,rated operational voltage up to 660V, rated current from 0.1A to 63A as the protection for low-capacity motor and circuit against overload and short-circuit, and works for unfrequnent circuit-transfering and direct motor-starting under normal conditions. And this production can start and break the motor directily which is under the whole voltage and AC-3 load against the overload and short-circuit.
This production conforms to standard of GB14048.2 and GB14048.4.

Model No.



RD M 108 -□/□□-□

- Setting current range
- Auxiliary contact code: Non for No contact, 1 for one Normal open, one normal closed(NO+NC); 2 for two Normal open(2NO), three normal close(2NC);
- Using type: Non for distribution protection, 1 for motor protection, 2 for short-circuit Protection,3 for ONLY overload protection
- Frame size rated current
- Design code
- Moulded Case Circuit Breaker
- Company code



3.2 Structure

RDM108-20 has auxiliary contact, RDM108-32 can assemble one external auxiliary contact group, RDM108-63 can assemble one internal auxiliary contact group.

The release mechanism of RDM108-32 and RDM108-63 has the quick closing and breaking structure, so it has the current-limit function. Bimetal time-inverse delay release and intanstaneous electromagnetic release. Overload release has temperature compensation device. In the front of product has the tripping current adjusting pointer, and tripping current is adjustable within the Specified range.
Operational type of RDM108-20,-32,-63 is button operation, knob operation and handle operation respectivly. And this production is front board connecting, and board installation. RDM108-20, -32 has the installation board, it can install at the 35mm DIN Rail.

Normal operational conditions and installation conditions

3.1 Altitude of Installation location shall not exceed 2000m.

3.2 Ambient Temperature shall not higher than +40ºC and below than -5ºC, and the ambient Average temperature shall higher than +35ºC.

3.3 Pollution class is 3 class.

3.4 Installation type: Main circuit is III, Auxiliary circuit and controll circuit is II.

3.5 Circuit breaker should install at the location that should have no danger of explosion,conductive dust and corrosion and isulation damage, rain and sonw influence.

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Main technical parameter

4.1 Overload adjustment range, see Table1

Table1

Model No.	Rated currentA	Release setting current rangeA	Model No.	Rated currentA	Release setting current rangeA
RDM108-20	0.16	0.1~0.16	RDM108-32	1.6	1~1.6
	0.25	0.16~0.25		2.5	1.6~2.5
	1.4	0.25~0.4		4	2.5~4
	0.63	0.4~0.63		6.3	4~6.3
	1	0.6~1		10	6.3~10
	1.6	1~1.6		12.5	8~12.5
	2.5	1.6~2.5		16	10~16
	3.2	2~3.2		20	12.5~20
	4	2.5~4		25	16~25
	5	3.2~5		32	22~32
	6.3	4~6.3	RDM108-63	10	6.3~10
	8	5~8		16	10~16
	10	6.3~10		25	16~25
	12.5	8~12.5		32	22~32
	16	10~16		40	28~40
	20	14~20		50	36~50
				63	45~63

4.1 Main technical parameter, see Table2

Table2

Model No.		RDM108-20	RDM108-32	RDM108-63
Rated insulation voltage Ui(V)		660	660	660
Rated insulation current Ue(V)		380	380、660	380、660
Poles		3	3	3
Rated short-circuit breaking capacity Icu(kV)	380V	1.5	10	22
	660V	-	3	4.2
Rated short-circuit connecting capacity Icn(kA)	380V	2.2	17	46
	660V	-	4.2	12.8
Max Motor-control power under ACV-3 Pe kW	220V	5.5	9	18
	380V	10	16	32
	660V	-	26	58
Auxiliary contact rated operational current AC-15(A)	220V	1.4	1.8	1.8
	380V	0.8	1.5	1.5
Auxiliary contact rated operational current DC-13(A)	110V	0.55	0.7	0.7
	220V	0.3	0.55	0.55
Auxiliary contact conventional thermal currentA		6	6	6
Equiped fuse specification NT(max)A	380V	63	80	160
	660V	-	50	160

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4.1 Overload tripping feature, see Table1

Table3

Type	Test current / Current setting current	Test time	Initial state	Ambient Temperature
Power-distribution protection type	1.05	Not tripping within 1hour	Cold state	30℃±2℃
	1.3	Tripping within 1hour	Heat state	
	3	Return time≥5s	Cold state	
	10	<0.2sTripping	Cold state	Any suitable temperature
Motor-protection type	1.05	Not tripping within 2hour	Cold state	40℃±2℃
	1.2	Tripping within 2hour	Heat state	
	1.5	<2min	Heat state	
	7.2	2s<Tp<10s	Cold state	
	12	<0.2sTripping	Cold state	Any suitable temperature

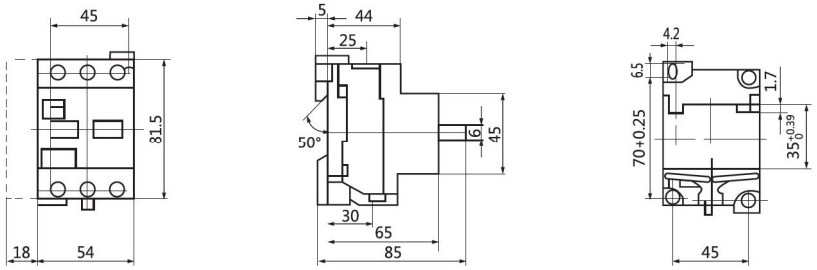
4.4 Temperature compensation performance of Overload release, See Table4

Table4

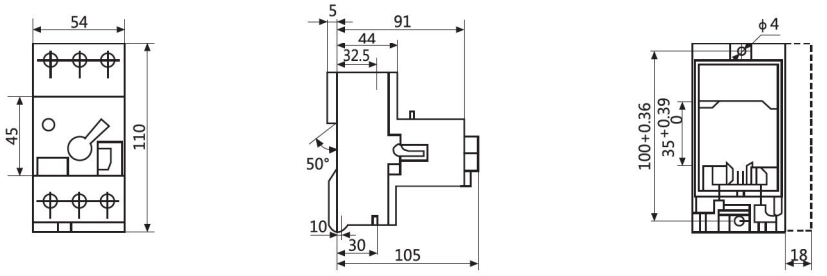
Setting current multiple	Active Time	Initial state	Ambient temperature
1.0In	Not tripping within 2hour	Cold state	+40℃
1.2In	Tripping within 2hour	Heat state(following the last test)	
1.05In	Not tripping within 2hour	Cold state	-5℃
1.30In	Tripping within 2hour	Heat state(following the last test)	

Shape and Installation dimension

RDM108-20 Shape and Installation dimension

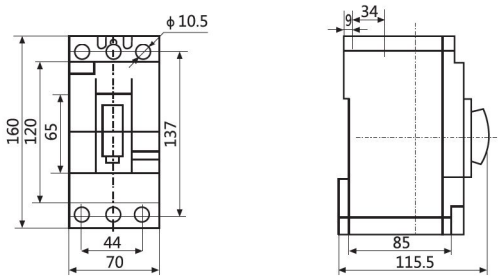


RDM108-32 Shape and Installation dimension



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RDM108-63 Shape and Installation dimension



Notice

1.Model No. and Name

2.Rated current

3.Accessory Name, Specification, code; if under-voltage release and shunt release is adopted, the operational voltage should be noticed.