

HDM2 Molded Case Circuit Breaker

Technical parameters
Standard: IEC/EN 60947-2

CE

Low-voltage Distribution

Technical Parameters

Shell Frame Current	HDM2-100	
Standard	IEC60947-2	
Rated Voltage Ue(V)	1P: 240VAC; 2P: 400/415VAC	
Rated Frequency (Hz)	50/60Hz	
Rated Insulation Voltage Ui(V)	690V	
Rated Impulse Withstand Voltage Uimp(kV)	8kV	
Rated Current In(A)	10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A	
Number of Poles	1P/2P	
Pollution Degree	3	
Installation Category	II	
Usage Category	A	
Ambient Temperature	-5°C ~+50°C	
Altitude	≤ 2000m	
Humidity	The atmospheric relative humidity does not exceed 50% when the maximum ambient temperature is +50°C . It is allowed to have relative higher humidity under lower temperature, e.g. up to 90% for +20°C .	
Protection Degree	IP30	
Rated ultimate short circuit breaking capacity(Icu/cos φ)	25kA/0.25	
Rated operating short circuit breaking capacity(Ics/cos φ)	18kA/0.25	
Mechanical Life	With Maintenance	20000
	Without Maintenance	8000
Electrical life	AC 400/415V	2000
Isolation function	Available	
Certification	CE	
W*H*D	1P (mm)	25*130*94
	2P (mm)	50*130*94

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De-rating table for application at higher ambient temperature

Model \ Temperature	0°C	10°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C
HDM2-1P	1.21	1.19	1.1	1.16	1.12	1.1	1.08	1.03	1	0.95	0.86	0.81
HDM2-2P	1.21	1.19	1.1	1.16	1.12	1.1	1.08	1.03	1	0.95	0.86	0.81

De-rating table for application at higher altitude

Altitude(m)	2000	3000	4000	5000
Rated Voltage(V)	415	350	310	270
De-rated rated current at ambient temperature of 50°C	1In	0.94In	0.88In	0.83In
Rated Insulation Voltage Ui(V)	800	700	600	500
Power frequency voltage (V)	3000	2500	2000	1800

Installing and Operation

- Before installation:
 - (1) Check whether the parameters on nameplate comply with the application requirement;
 - (2) Make sure the handle at the "Trip" position;
 - (3) Open and close the circuit breakers 3 times, and the operation should be reliable and no clamping, and the handle should be at "OFF" position;
- When installing:
 - (1) Check whether the wire connection is correct, and connect "LINE" to power supply, and "LOAD" to equipments.
 - (2) Refer to below table 1 for recommended wiring cross section and related rated current, to make sure the breaker work properly;
 - (3) Refer to table 2 for wiring fastening torque;

Rated current and related wiring cross section

Rated current A	16, 20	25	32	40, 50	63	80	100
Cross section of wire mm ²	2.5	4	6	10	16	25	35

Fastening torque

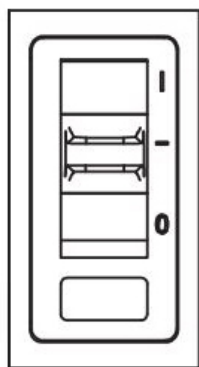
Model	Screw	Fastening torque N·m
100AF	M8	9.5-10.5

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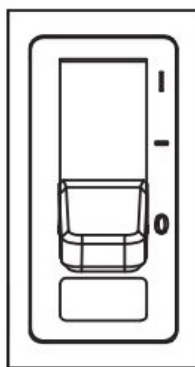
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CE

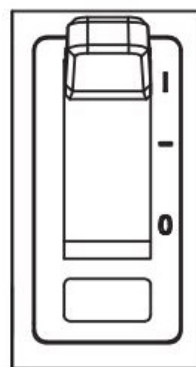
Handle Position Indication



TRIP

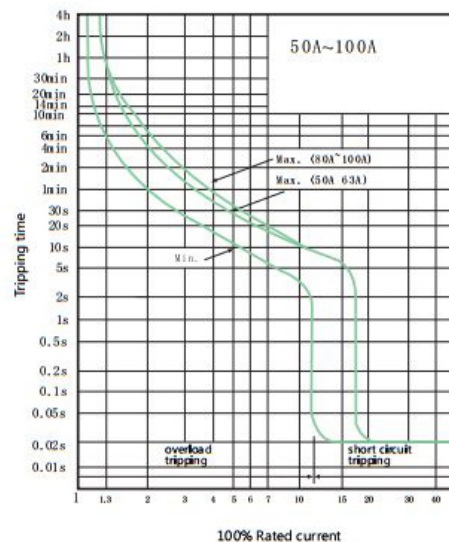
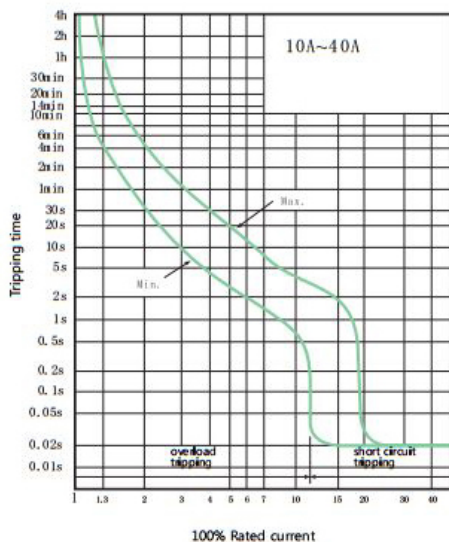


OFF



ON

HDM2 Series Trip Curve



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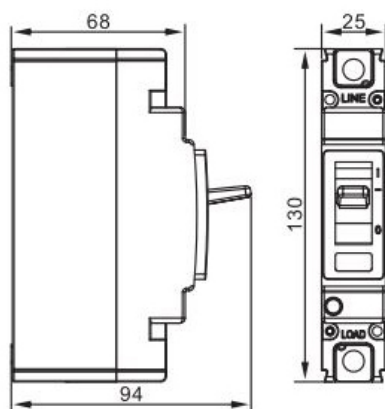
Dimensions and Installing size
Standard: IEC/EN 60947-2

CE

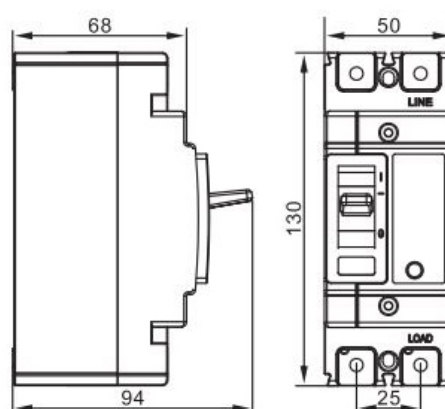
Low-voltage Distribution

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Dimensions

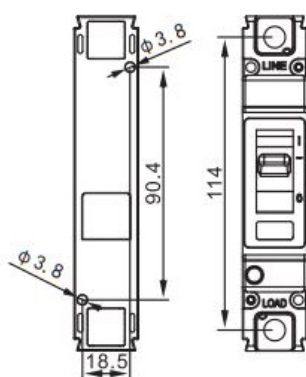


HDM2-100/1P

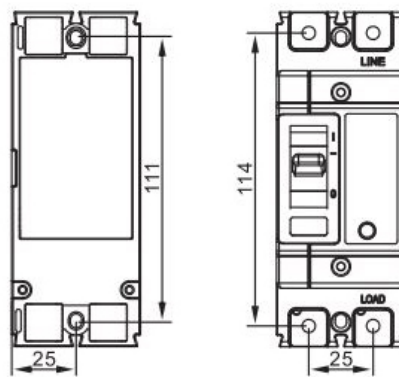


HDM2-100/2P

Installation Size



HDM2-100/1P



HDM2-100/2P

HDM2 Molded Case Circuit Breaker

Maintenance and Care
Standard: IEC/EN 60947-2



Maintenance and Care

- The maintenance and care must be implemented by qualified professional persons;
 - Make sure that the breaker is electrically neutral;
 - Conduct maintenance and care once a year under normal operation condition.
- See below table for maintenance content.

Type	Item	Content
Circuit Breaker	Appearance	Free of dust or condensation. Clean if there is any. Free of damage. No discoloration at the shell or connecting terminal.
	Terminal Connection	Not loose and tighten according to the torque specified in table 2
	Interphase barrier	Should be inserted tightly, and no damage
	Handle closing and opening	Operation shall be flexible
	Insulation test	Prohibited to test insulation between any two load phases by short circuit
	Test button	The handle should be at trip position after tripping
Circuit breaker with accessories (If applicable)	Installed with undervoltage release	The breaker shall open reliably when cut off the power supply of undervoltage release, and the handle should be at TRIP position
	Installed with shunt release	The breaker shall open reliably when energizing the shunt release with rated voltage, and the handle should be at TRIP position
	Installed with auxiliary contacts	Open and close the breaker, the auxiliary contacts shall transfer signal reliably.