

EKM1-125DC 10KA DC MCB



Mini Circuit Breaker

Standard_ IEC60947-2

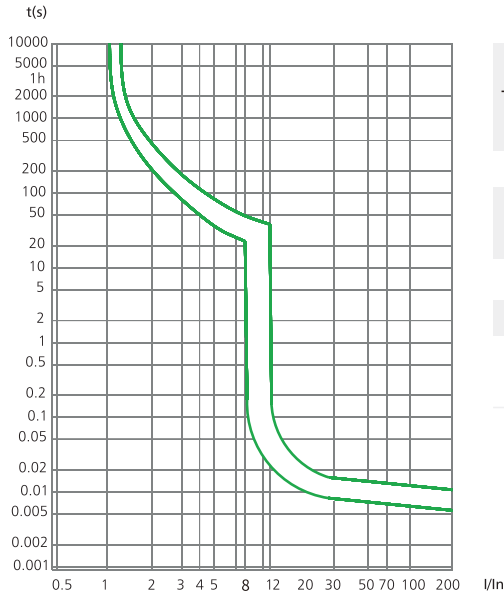


Technical Data

Electrical Features	Rated current In	80,100,125A
	Poles	1P, 2P, 4P
	Rated voltage Ue	1P(250V), 2P(500V), 4P(1000V)
	Rated breaking capacity	10,000A
	Rated impulse withstand voltage(1.5/50) Uimp	4,000V
	Dielectric test voltage at ind. Freq. for 1 min	2kV
	Pollution degree	2
	Thermo-magnetic release characteristic	8~12
Mechanical Features	Electrical life	4,000 Cycles
	Mechanical life	10,000 Cycles
	Contact position indicator	Yes
	Protection degree	IP20
	Reference temperature for setting of thermal element	30°C
	Ambient temperature (with daily average ≤35°C)	-5°C~+40°C
	Storage temperature	-25°C~+70°C
Installation	Terminal connection type	Cable/Pin-type busbar/U-type busbar
	Terminal size top/bottom for cable	50mm ² 18-2AWG
	Terminal size top/bottom for busbar	50mm ² 18-2AWG
	Tightening torque	3.5Nm 30In-lbs
	Mounting	On DIN rail EN60715(35mm) by means of fast clip device
	Connection	Power supply in both directions
Combination with accessories	Auxiliary contact	EKM1H-OF
	Alarm contact	EKM1H-FB

MCB Characteristics

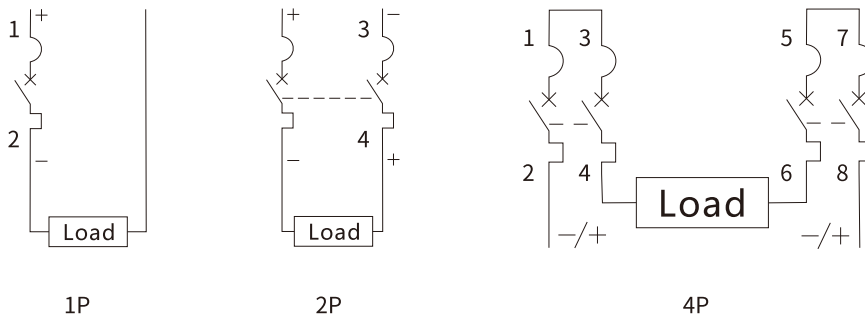
Characteristics Curves



Test	Test current	Initial state	Time limit for tripping or not tripping	Expected result	Remarks
a	1.05I _n	Cold state a	$t \geq 2h$	Not tripping	
b	1.30I _n	Right after test number a	$t < 2h$	Tripping	The current is rising within 5s
c	8I _n	Cold state a	$t \geq 0.2s$	Tripping	
d	12I _n	Cold state a	$t \leq 0.2s$	Tripping	

Note: The terminology "Cold state" means that the test is performed at the base calibration temperature with no load prior to the test.

Circuit Diagram



Overall and Installation Dimension(mm)

