

EKM1-63DC 6KA/10KA DC MCB

Mini Circuit Breaker

ETEK®

Standard_ IEC60947-2



Technical Data

Electrical Features	Rated current I_n	1,2,3,4,5,6,8,10,13,16,20,25,32,40,50,63A
	Poles	1P, 2P, 4P
	Rated voltage U_e	1P(250V), 2P(500V), 4P(1000V)
	Rated breaking capacity	6,000/10,000A
	Rated impulse withstand voltage(1.5/50) U_{imp}	4,000V
	Dielectric test voltage at ind. Freq. for 1 min	2kV
	Pollution degree	2
	Thermo-magnetic release characteristic	C (7~10) I_n

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 $\leq 35^\circ\text{C}$)	-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	25mm ² 18-3AWG
	Terminal size top/bottom for busbar	25mm ² 18-3AWG
	Tightening torque	2.5Nm 22In-lbs
	Mounting	On DIN rail EN60715(35mm) by means of fast clip device
	Connection	According to the wiring diagram

Combination with accessories	Auxiliary contact	EKM1-OF
	Alarm contact	EKM1-FB
	Shunt release	EKM1-MX
	Over/Under voltage release	EKM1-MV+MN

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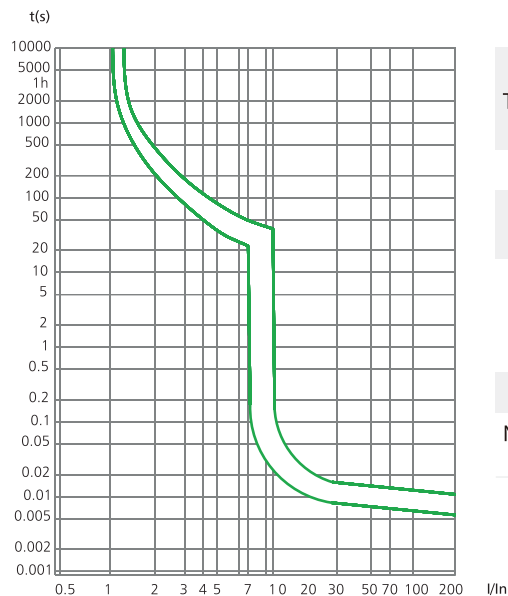
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MCB Characteristics

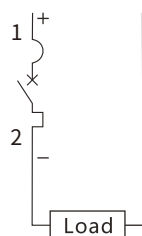
Characteristics Curves



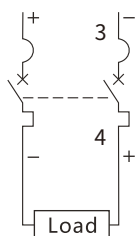
Test	Test current	Initial state	Time limit for tripping or not tripping	Expected result	Remarks
a	1.05I _n	Cold state a	$t \leq 1h$	Not tripping	
b	1.30I _n	Right after test number a	$t < 1h$	Tripping	The current is rising within 5s
c	7I _n	Cold state a	0.2s < t < 15s (I _n ≤ 32A) 0.2s < t ≤ 30s (I _n > 32A)	Tripping	
d	10I _n	Cold state a	$t < 0.1s$	Tripping	

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

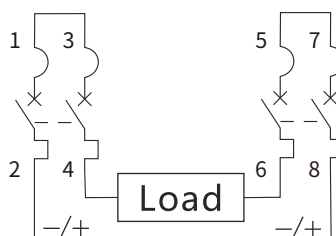
Circuit Diagram



1P



2P



4P

Overall and Installation Dimension(mm)

