

EKL3-40M 6KA RCBO (Electromagnetic Type)

RCCB with Overcurrent Protection



Standard_ IEC61009-1



Technical Data

Electrical Features	Mode	Electromagnetic
	Type	AC,A
	Rated current I _n	6,8,10,13,16,20,25,32,40A
	Poles	1P+N
	Rated voltage U _e	230/240V~
	Insulation voltage U _i	500V
	Rated frequency	50/60Hz
	Rated residual operating current(I Δ n)	30,100,300mA
	Break time under I Δ n	≤0.1s
	Rated breaking capacity	6,000A
	Energy limiting class	3
	Rated impulse withstand voltage(1.5/50) U _{imp}	4,000V
	Dielectric test voltage at ind.Freq. for 1min	2kV
	Pollution degree	2
Thermo-magnetic release characteristic	B,C	
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	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	From top and bottom
Combination with accessories	Auxiliary contact	EKM1-OF
	Alarm contact	EKM1-FB
	Shunt release	EKM1-MX

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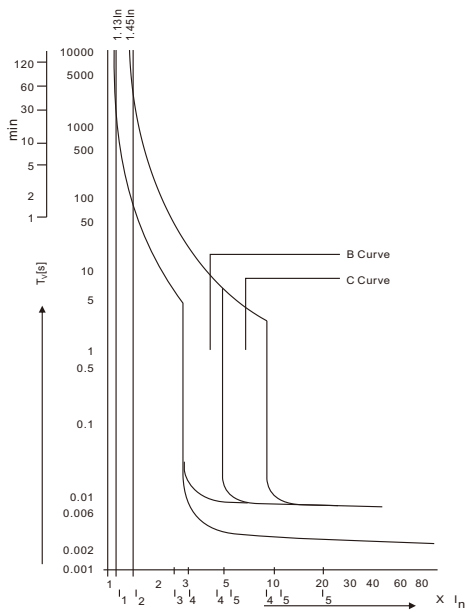
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Characteristics

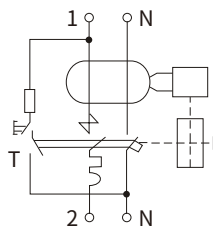
Tripping Current Range	Type	Tripping current $I\Delta/A$		
	AC		$0.5I\Delta n < I\Delta < I\Delta n$	
A	Lagging Angle	$I\Delta n > 0.01A$		$I\Delta n \leq 0.01A$
		0°	$0.35I\Delta n \leq I\Delta \leq 1.4I\Delta n$	$0.35I\Delta n \leq I\Delta \leq 2I\Delta n$
		90°	$0.25I\Delta n \leq I\Delta \leq 1.4I\Delta n$	$0.25I\Delta n \leq I\Delta \leq 2I\Delta n$
		135°	$0.11I\Delta n \leq I\Delta \leq 1.4I\Delta n$	$0.11I\Delta n \leq I\Delta \leq 2I\Delta n$

Characteristics Curves



As per IEC60898	Thermal Tripping		Magnetic Tripping			
	No tripping current	Tripping current I_2	Time Limits t	Hold current I_4	Trip current I_5	Time Limits t
B Curve	$1.13 \times I_N$		$\geq 1h$	$3 \times I_N$	$\geq 0.1s$	
		$1.45 \times I_N$	$< 1h$			$5 \times I_N$
C Curve	$1.13 \times I_N$		$\geq 1h$	$5 \times I_N$	$\geq 0.1s$	
		$1.45 \times I_N$	$< 1h$			$10 \times I_N$

Circuit Diagram



Overall and Installation Dimension(mm)

