

EKL8-40M 6KA RCBO (Electromagnetic Type)

ETЭК®

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	Power supply in both directions
Combination with accessories	Auxiliary contact	EKM2-OF
	Alarm contact	EKM2-FB
	Shunt release	EKM2-MX

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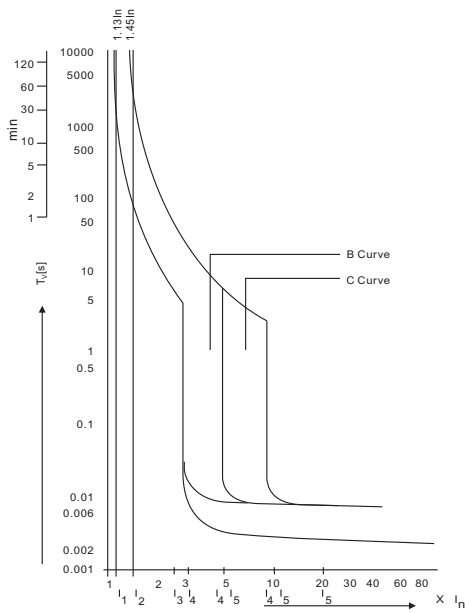
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Characteristics

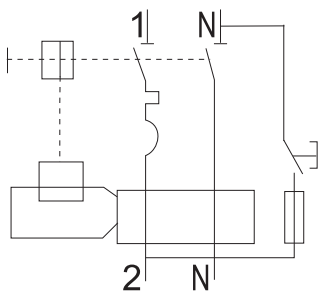
Tripping Current Range	Type	Tripping current I_{Δ}/A		
	AC		$0.5I_{\Delta n} < I_{\Delta} < I_{\Delta n}$	
A	Lagging Angle	$I_{\Delta n} > 0.01A$		
		0°	$0.35I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.35I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
		90°	$0.25I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.25I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
		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	$1.13 \times I_N$		$\geq 1h$ $< 1h$	$3 \times I_N$		$\geq 0.1s$ $< 0.1s$
C Curve	$1.13 \times I_N$		$\geq 1h$ $< 1h$	$5 \times I_N$	$10 \times I_N$	$\geq 0.1s$ $< 0.1s$

Circuit Diagram



Overall and Installation Dimension(mm)

