

# EKL5-63 6KA RCBO

RCCB with Overcurrent Protection

**ETEK**<sup>®</sup>

Standard\_ IEC61009-1



## Technical Data

<b>Electrical Features</b>	Mode	Electronic
	Type	AC,A,S
	Rated current I <sub>n</sub>	6,8,10,13,16,20,25,32,40,50,63A
	Poles	2P(1P+N),4P(3P+N)
	Rated voltage U <sub>e</sub>	2P 240V~
		4P 415V~
	Insulation voltage U <sub>i</sub>	500V
	Rated frequency	50/60Hz
	Rated residual operating current(I <sub>Δn</sub> )	10,30,100,300mA
	Break time under I <sub>Δn</sub>	≤0.1s(S type <0.5s)
	Rated breaking capacity	6,000A
	Energy limiting class	3
	Rated impulse withstand voltage(1.5/50) U <sub>imp</sub>	4,000V
	Dielectric test voltage at ind.Freq. for 1min	2kV
Pollution degree	2	
Thermo-magnetic release characteristic	B,C,D	
<b>Mechanical Features</b>	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
<b>Installation</b>	Terminal connection type	Cable/Pin-type busbar/U-type busbar
	Terminal size top/bottom for cable	25mm <sup>2</sup> 18-3AWG
	Terminal size top/bottom for busbar	25mm <sup>2</sup> 18-3AWG
	Tightening torque	2.5Nm 22In-lbs
	Mounting	On DIN rail EN60715(35mm) by means of fast clip device
	Connection	From top
<b>Combination with accessories</b>	Auxiliary contact	EKM1-OF
	Alarm contact	EKM1-FB
	Shunt release	EKM1-MX
<b>Combination with accessories</b>	Over voltage protection	Yes
	Under voltage protection	Yes
	Over/Under voltage protection	Yes

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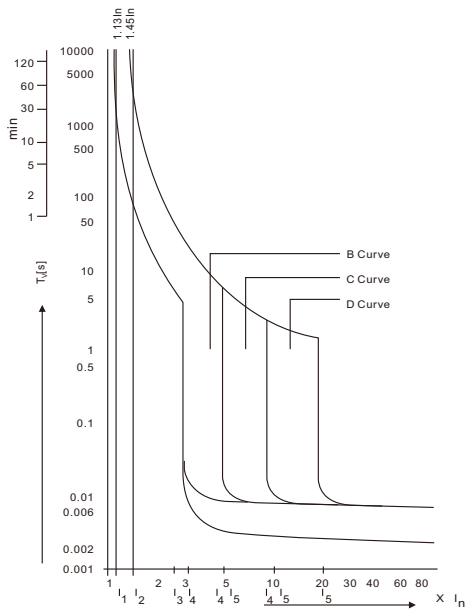


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## Characteristics

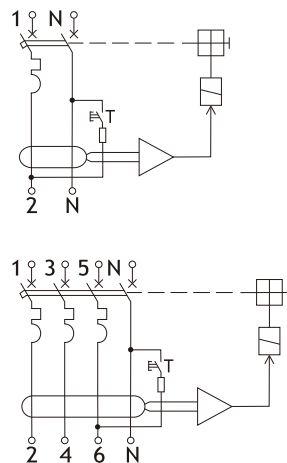
Tripping Current Range	Type	Tripping current I $\Delta$ /A	
	AC		0.5I $\Delta$ n < I $\Delta$ < I $\Delta$ n
A	Lagging Angle	I $\Delta$ n > 0.01A	
	0°	0.35I $\Delta$ n ≤ I $\Delta$ ≤ 1.4I $\Delta$ n	I $\Delta$ n ≤ 0.01A
	90°	0.25I $\Delta$ n ≤ I $\Delta$ ≤ 1.4I $\Delta$ n	0.35I $\Delta$ n ≤ I $\Delta$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

## Characteristics Curves



As per IEC60898	Thermal Tripping		Magnetic Tripping			
	No tripping current	Tripping current I <sub>2</sub>	Time Limits t	Hold current I <sub>4</sub>	Trip current I <sub>5</sub>	Time Limits t
B Curve	1.13 × I <sub>N</sub>	1.45 × I <sub>N</sub>	≥ 1h < 1h	3 × I <sub>N</sub>	5 × I <sub>N</sub>	≥ 0.1s < 0.1s
C Curve	1.13 × I <sub>N</sub>	1.45 × I <sub>N</sub>	≥ 1h < 1h	5 × I <sub>N</sub>	10 × I <sub>N</sub>	≥ 0.1s < 0.1s
D Curve	1.13 × I <sub>N</sub>	1.45 × I <sub>N</sub>	≥ 1h < 1h	10 × I <sub>N</sub>	20 × I <sub>N</sub>	≥ 0.1s < 0.1s

## Circuit Diagram



## Overall and Installation Dimension (mm)

