Usage Manual

ETEK ELECTRIC

RCCB with Overcurrent Protection (RCBO)

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Thank you for choosing EK Series **RCCB with Overcurrent Protection.** Please read this manual before installation, operation and maintenance.

STANDARD AND QUALITY CERTIFICATES

IEC/EN61009-1 CE Ⓢ **RoHS**

Technical Data

Mode	EKL5-63,EKL15-63
Type	AC,A,S
Rated current In	6,8,10,13,16,20,25,32,40,50,63A
Poles	2P(1P+N),4P(3P+N)
Rated voltage Ue	2P 230/240V~ 4P 400/415V~
Insulation voltage Ui	500V
Rated frequency	50/60Hz
Rated residual operating current(I△n)	10,30,100,300mA
Break time under I△n	⩽0.1s(S type ＜0.5s)
Rated breaking capacity	6,000A
Energy limiting class	3
Rated impulse withstand voltage(1.5/50) Uimp	4,000V
Dielectric test voltage at ind.Freq. for 1min	2kV

Pollution degree	2
Thermo-magnetic release characteristic	B,C,D
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
Terminal connection type	Cable/Pin-type busbar/U-type busbar
Terminal size top/bottom for cable	25mm² 18-3AWG
Terminal size top/bottom for busbar	25mm² 18-3AWG
Tightening torque	2.5Nm 22In-lbs
Mounting	On DIN rail EN60715(35mm) by means of fast clip device
Connection	From top
Auxiliary contact	EKM1-OF
Alarm contact	EKM1-FB
Shunt release	EKM1-MX

Characteristics

Type		Tripping current I△/A	
AC		0.5I△n<I△<I△n	
A	Lagging Angle	I△n>0.01A	I△n⩽0.01A
	0°	0.35I△n⩽I△⩽1.4I△n	0.35I△n⩽I△⩽2I△n
	90°	0.25I△n⩽I△⩽1.4I△n	0.25I△n⩽I△⩽2I△n
	135°	0.11I△n⩽I△⩽1.4I△n	0.11I△n⩽I△⩽2I△n

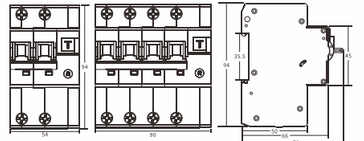
CHARACTERISTICS CURVES

IEC/EN61009-1 30~35℃

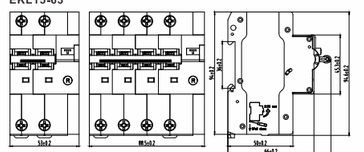
	ThermalTripping			MagneticTripping		
	No tripping current	Tripping current	Time Limits t	Hold current	Trip current	Time Limits t
B Curve	1.13× IN	1.45× IN	⩾1h <1h	3× IN	5× IN	⩾0.1s <0.1s
C Curve	1.13× IN	1.45× IN	⩾1h <1h	5× IN	10× IN	⩾0.1s <0.1s
D Curve	1.13× IN	1.45× IN	⩾1h <1h	10× IN	20× IN	⩾0.1s <0.1s

Overalland Installation Dimension(mm)

EKL5-63

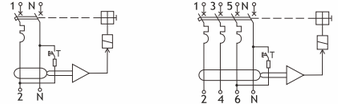


EKL15-63



Circuit Diagram

EKL5-63



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