Usage Manual

ETEK®

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 S **RoHS**

Technical Data

Mode	Electronic
Type	AC,A
Rated current In	6,8,10,13,16,20,25,32,40A
Poles	1P+N
Rated voltage Ue	230/240V~
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
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
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	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

Characteristics

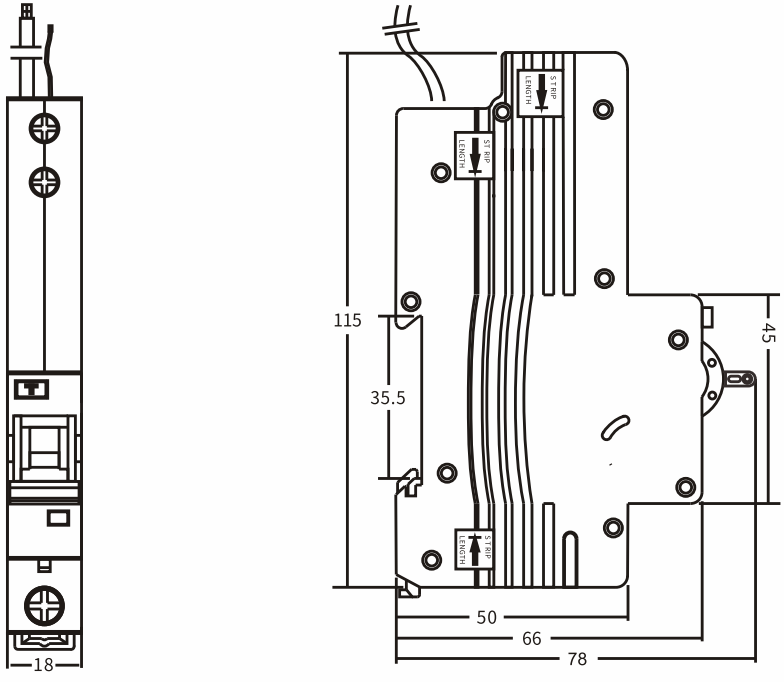
Type	Tripping current I△/A		
AC	0.5I△n＜I△＜I△n		
A	Lagging Angle	I△n＞0.01A	I△n≤0.01A
	0°	0.35I△n≤I△≤1.4I△n	0.35I△n≤I△≤2I△n
	90°	0.25I△n≤I△≤1.4I△n	0.25I△n≤I△≤2I△n
	135°	0.11I△n≤I△≤1.4I△n	0.11I△n≤I△≤2I△n

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		⩾1h	3× IN		⩾0.1s
		1.45× IN	<1h		5× IN	<0.1s
C Curve	1.13× IN		⩾1h	5× IN		⩾0.1s
		1.45× IN	<1h		10× IN	<0.1s

Overalland Installation Dimension(mm)



Circuit Diagram