

Usage Manual



CURRENT PROTECTION RELAY

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Thank you for choosing EK Series Current Protection Relay.
Please read this manual before installation, operation and maintenance.

STANDARD AND QUALITY CERTIFICATES



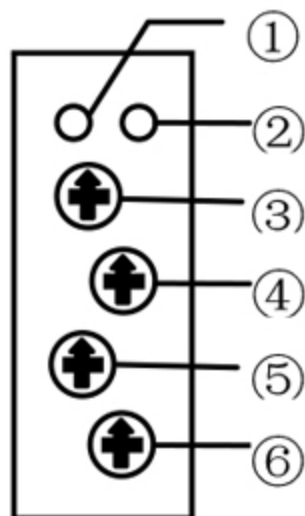
Wide operating voltage
Double insulation level
Adjustable protection delay and reset delay
External transformer can be connected to expand the scope of use

17.5 mm/36mm width
DIN rail mounting
Suitable for monitoring the running current of various equipment

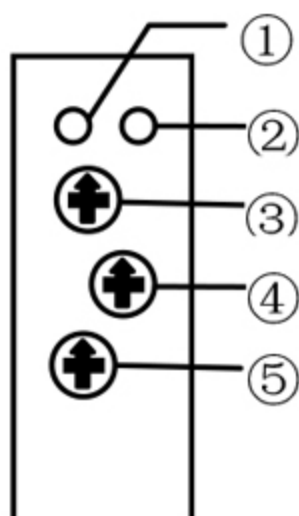
Model No.	Description	Action Chart	Technical Parameter	
A Series		<p>A Series: The load working through NO Contact</p>	No.&Type of Contact	SPDT
EKR8-82*1A**	Over Current		Material of Contact	Silver Alloy
EKR8-82*2A**	Under Current		Voltage Range	AC/DC12-240V or Single Voltage
EKR8-83*1A**	Over Current		Max. Consumption	3VA (AC) 1.7W (DC)
EKR8-83*2A**	Under Current		Protection Delay Range	Max. 10S
EKR8-84*3A**	Over/Under Current		Reset Delay Range	Max. 160S/Off
			Electrical Life	10 ⁵

Model No.	Description	Action Chart	Technical Parameter					
B Series		B Series: The load working through NC Contact Normal Operation Over/Under-current Arise	Mechanical Life	10 ⁷				
EKR8-82*1B**	Over Current		Voltage resistance between input and contacts	2500VAC				
EKR8-82*2B**	Under Current		Voltage resistance between contacts	1000VAC				
EKR8-83*1B**	Over Current		Terminal wire capacity	14AWG (2.1mm ²)				
EKR8-83*2B**	Under Current		Terminal torque	7.1 lbf in (0.8Nm)				
EKR8-84*3B**	Over/Under Current		Storage temperature	-30℃ - +70℃				
			Operating temperature	-20℃ - +55℃				
Model Naming Rules		Current Specification 01---1A 02---2A 05---5A 10---10A 16---16A	Output Protection Mode A---NO Contact Protection B---NC Contact Protection	Protection Type 1--- Over Current 2--- Under Current 3---Over/Under Current	Product Width 1---18mm 3---36mm	Number of Knob 2---2 3---3 4---4	Current Protection Relay	Design Serial Number
YX	8	4	1	3	B	10		

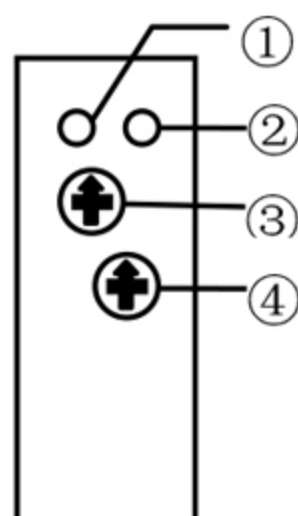
MODEL & EXPLANATION



EKR8-8413***



EKR8-831***



EKR8-821***

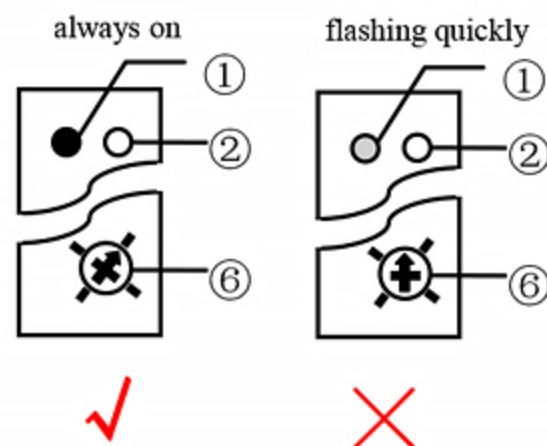
①	Power Indicator
②	Work Indicator
③	Current range selection
④	Power on delay setting
⑤	Protection delay setting
⑥	Over current/under current mode selection

Precautions for use:

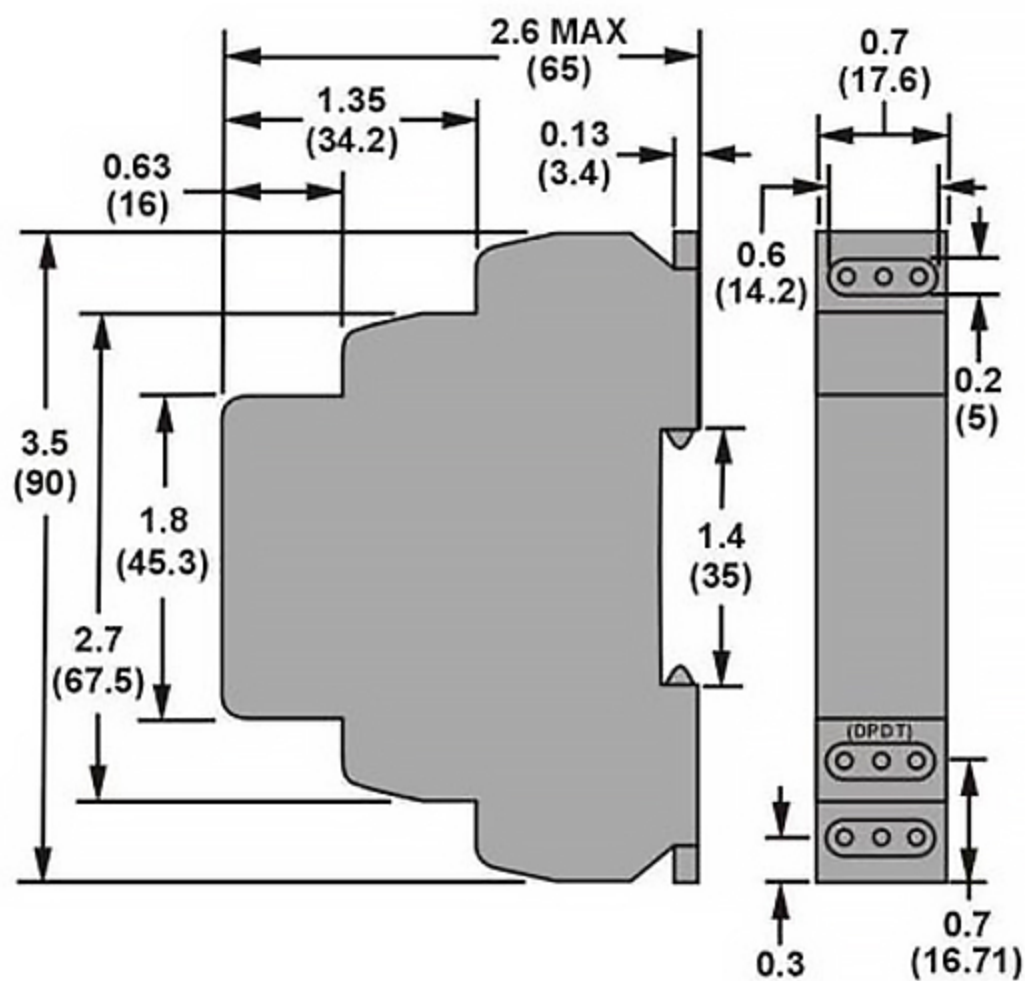
When the product is powered on, the power-on delay PT is executed first, and the power light flashes slowly. At this time, the current is not monitored, and the starting current value of the load is ignored. When the delay is completed, it will enter the normal monitoring mode.

As for EKR8-84*****, when using the over/under current function selection knob, please note that: When the power light is flashing quickly, the adjusting knob is not under the normal function area. Only when the power light is always on, it is in the correct position.

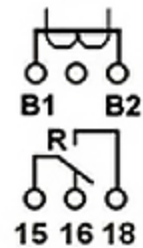
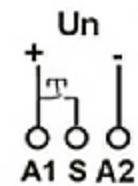
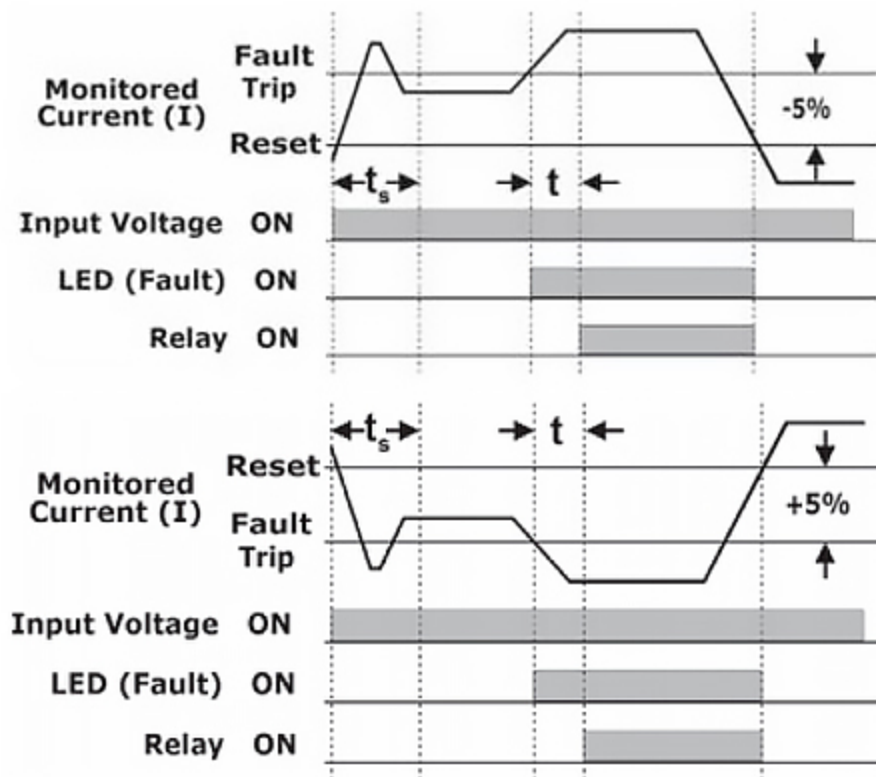
EKR8-84***** current mode selection



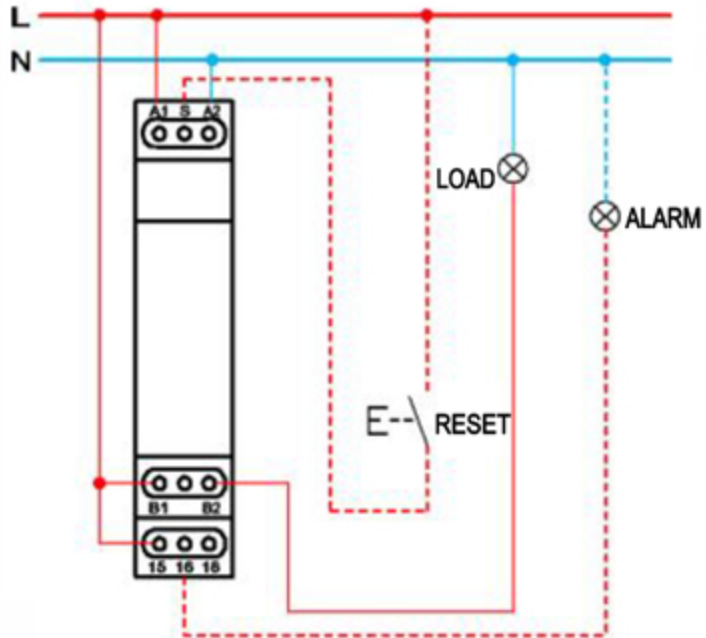
DIMENSIONS_{Inches(mm)}



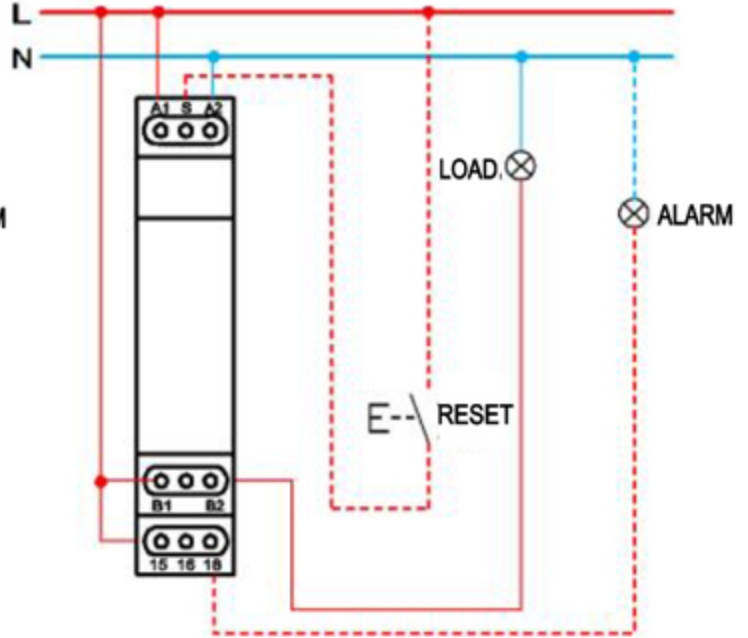
WIRING DIAGRAMS



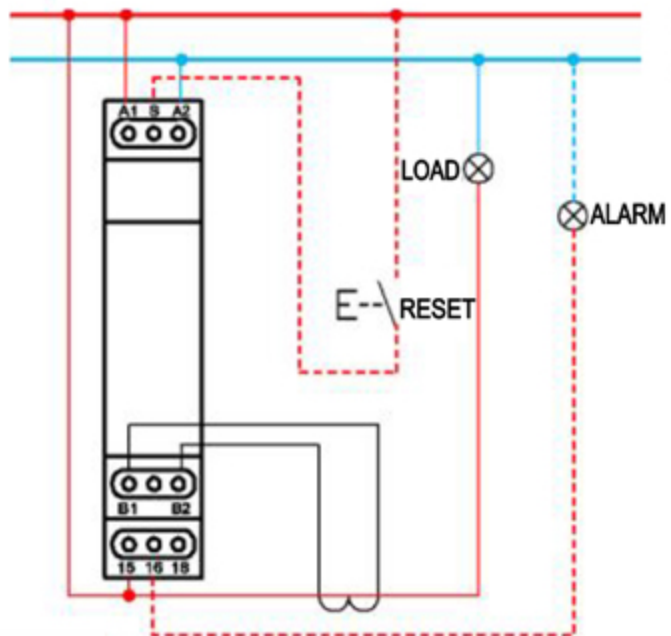
Built-in Transformer A Series Connection



Built-in Transformer B Series Connection



External Transformer A Series Connection



External Transformer B Series Connection

