Usage Manual

ETEK ELECTRIC

Impulse Relays

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Thank you for choosing EKLR-16 Series Impulse relays.
Please read this manual before installation, operation and maintenance.

STANDARD AND QUALITY CERTIFICATES

EN/IEC 60669-2-2

CE CB

EKLR-16 series impulse relay coils are triggered by impulses and the contacts are closed. The product has two stable mechanical positions, and the contacts will open temporarily with the next impulse. Each received impulse will reverse the position of the contact and can be controlled by an unlimited number of buttons. And has the characteristics of zero power consumption.
Impulse relay can be used to control the lighting circuit through the button. The circuit consists of incandescent lamps, halogen lamps, etc. (resistive load);
fluorescent lamps, discharge lamps, etc. (inductive load).

Type and Meaning

EKLR-16 - □□/□□□

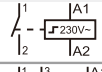
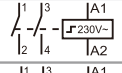
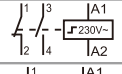
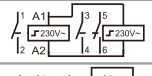
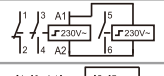
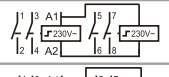
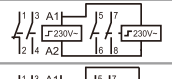
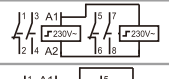
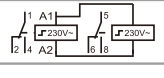
Coil Voltag

Normal Close

Normal Open

Current

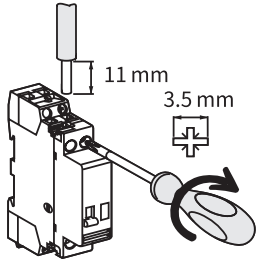
(eg.EKLR-16 /10 AC12V, It is16A, 1NO, 12V AC current coil voltage)

Contactor Model	Rated Current	Control Voltage(V)(50Hz)	Circuit Diagram
EKLR-16/10	16A		
EKLR-16/20	16A		
EKLR-16/11	16A		
EKLR-16/1C	16A	AC12V/DC6V	
EKLR-16/30	16A	AC24V/DC12V	
EKLR-16/21	16A	AC48V/DC24V	
EKLR-16/40	16A	AC110V/DC48V	
EKLR-16/31	16A	AC230V/DC110V	
EKLR-16/22	16A		
EKLR-16/2C	16A		

Normal working conditions and installation conditions

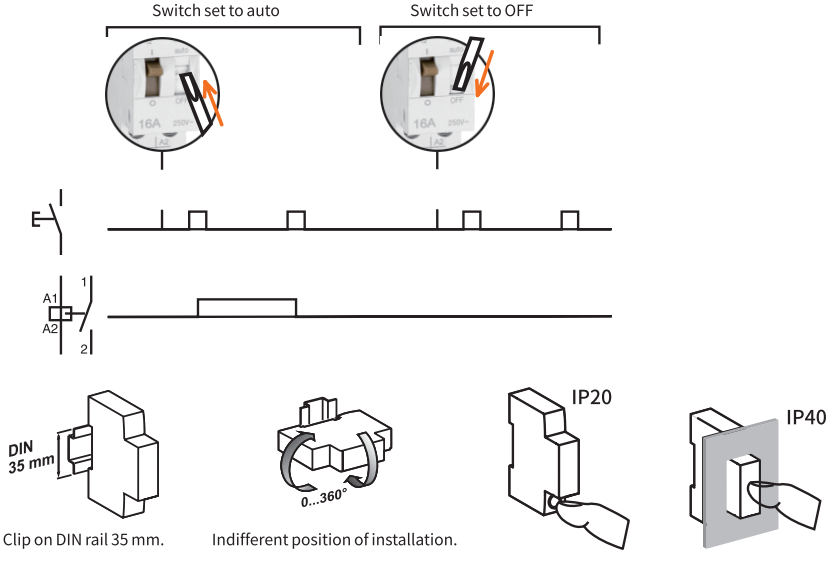
Operating temperature	-5°C~+60°C
Storage temperature	-40°C~+70°C
Environmental protection category	Dust type
Overvoltage category	IV
Installation site	Do not install naked, need to install in the distribution box

Connection



Type	Rating	Circuit	Tightening torque	Copper cables	
			DB122945	Rigid or ferrule	Flexible or ferrule
EKLR-16	16 A	Control	1 N.m	0.5 to 4 mm^2	1 to 4 mm^2
		Power		1.5 to 4 mm^2	1.5 to 4 mm^2

Operation



Clip on DIN rail 35 mm.

Indifferent position of installation.

Contact parameters

Contact form	1P
Initial contact resistance	100mΩ
Contact material	Silver alloy
Contact load (resistance)	IV
Maximum switching voltage	250VAC/125VDC
Maximum switching current	16A
Maximum switching power	4000VA 448W
Electrical life	1×10^{5} cycles
Mechanical life	1×10^{6} cycles

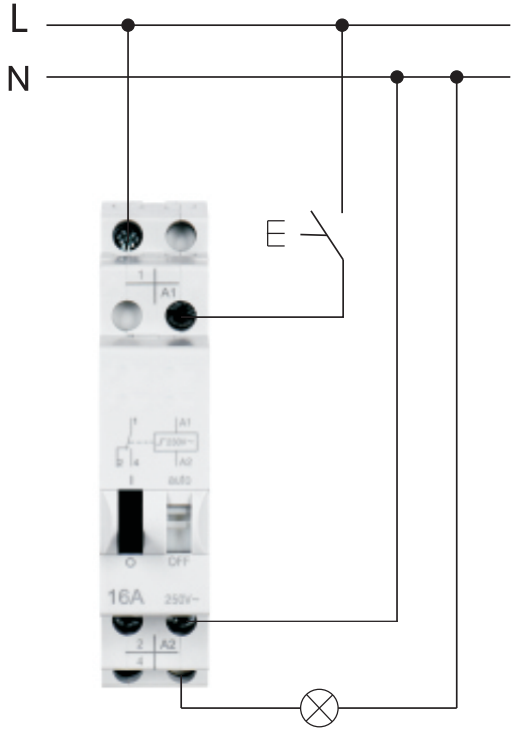
Performance, characteristic parameters

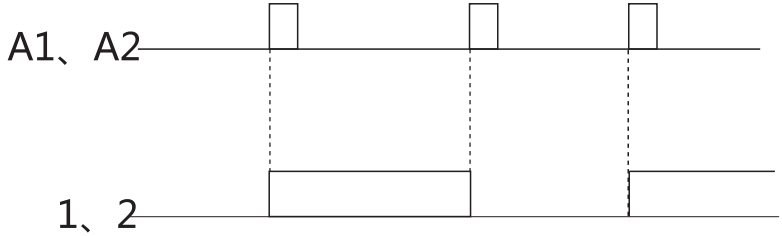
		100mΩ (500VDC)
Dielectric Strength	Contact between coils	4000VAC
	Disconnect between contacts	1500VAC
Actuation time		⩽20ms
Shock (stability)		Accelerated speed 100m/s2, pulse duration 11ms
Shake		Double-amplitude 1mm, (10~55)Hz
Way to install		Guide rail type
Overall size (mm)		86×72×18

Coil parameters

Pulse voltage duration	⩾50ms(recommend200ms)
Voltage range	85%～110%

Wiring diagram and sequence diagram





Overall and Installation Dimension(mm)