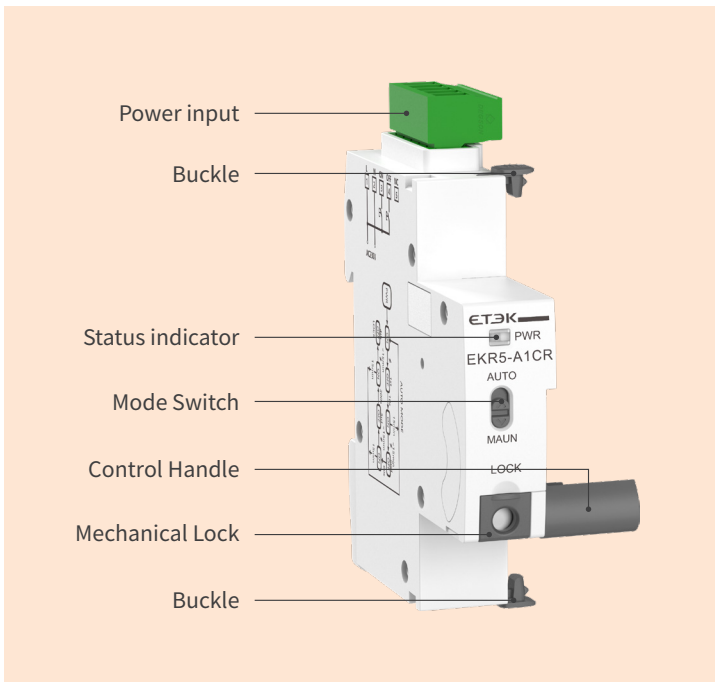


Overview



EKR5 Series Recloser is a reclosing device compatible with switch control and RS485 remote control, designed for use with RCCBs.

It features an automatic reclosing function that attempts to restart up to three times. If a line protection device trips due to manual opening, short circuit, leakage, or overload, the EKR5 will automatically attempt to restore power, enhancing the reliability of the power supply system.

This device is extensively used in areas such as home smart power distribution and photovoltaic equipment, making it a practical and widely adopted solution for reclosing needs.

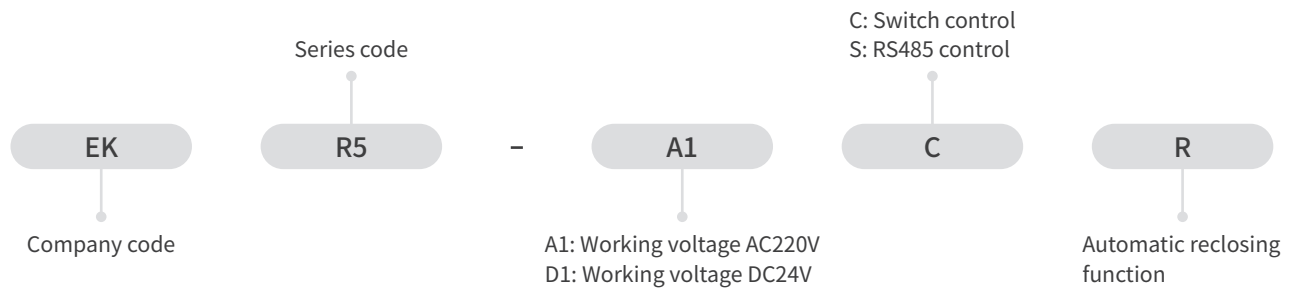
Features

- Can be used with ETEK’s RCCBs.
- Supports switch control or RS485 control of RCCB, remote closing and opening.
- Type R has automatic reclosing function (3 times).
- Includes manual/automatic selector switch.
- The working status is indicated by an LED.
- The operating mechanism is only 18mm wide.
- A padlock can be used to secure the circuit breaker in the open position, ensuring safe operation on site.

EKR5 Series

Recloser for RCCB

Instruction of Type code

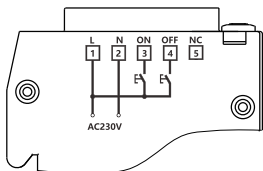


Technical Parameter

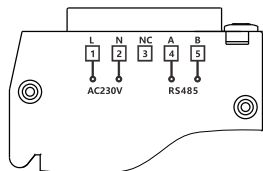
Basics Model				
Ref No.	EKR5-A1C	EKR5-D1C	EKR5-A1S	EKR5-D1S
Control mode	Switching input control		RS485 control (MODBUS-RTU)	
Power terminals	A1-A2			
Power supply voltage	AC230V±10%	DC24V±10%	AC230V±10%	DC24V±10%
Power consumption	AC max.1VA(standby) max.20VA(operation)	DC max.1VA(standby) max.20VA(operation)	AC max.1VA(standby) max.20VA(operation)	DC max.1VA(standby) max.20VA(operation)
Frequency range	50Hz-60Hz			
Supply indication	Red and green LEDs			
Action time	≤ 1s			
Electrical life	4000 Cycles			
Mechanical life	10000 Cycles			
Operating ambient temperature	-20°C to+55°C			
Storage temperature	-35°C to+75°C			
Installation	Mounting on 35mm DIN rail			
Protection degree	IP20			
Overvoltage category	III			
Pollution degree	2			
Max. Supply terminal size for cable	2.5mm ²			
Dimensions	84×18×78mm			
Matching products	EKL6-100, EKL6-100B, EKL6-63EV			

Built-in automatic recloser				
Ref No.	EKR5-A1CR	EKR5-D1CR	EKR5-A1SR	EKR5-D1SR
Control mode	Switching input control + automatic reclosing		RS485 control (MODBUS-RTU) + automatic reclosing	
Power terminals	A1-A2			
Power supply voltage	AC230V±10%	DC24V±10%	AC230V±10%	DC24V±10%
Power consumption	AC max.1VA(standby) max.20VA(operation)	DC max.1VA(standby) max.20VA(operation)	AC max.1VA(standby) max.20VA(operation)	DC max.1VA(standby) max.20VA(operation)
Frequency range	50Hz-60Hz			
Supply indication	Red and green LEDs			
Action time	≤ 1s			
Auto reclosing times	3			
Auto reclosing interval time	10S - 60S - 300S			
Reset the closing times	No trip or manual reset within 15 minutes after the successful closing			
Electrical life	4000 Cycles			
Mechanical life	10000 Cycles			
Operating ambient temperature	-20°C to+55°C			
Storage temperature	-35°C to+75°C			
Installation	Mounting on 35mm DIN rail			
Protection degree	IP20			
Overvoltage category	III			
Pollution degree	2			
Max. Supply terminal size for cable	2.5mm ²			
Dimensions	84×18×78mm			
Matching products	EKL6-100, EKL6-100B, EKL6-63EV			

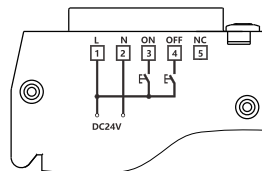
Wiring diagram



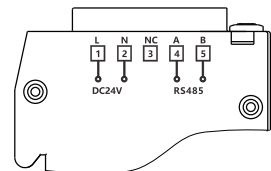
EKR5-A1C
EKR5-A1CR



EKR5-A1S
EKR5-A1SR



EKR5-D1C
EKR5-D1CR






EKR5-D1S
EKR5-D1SR

EKR5 Series

Recloser for RCCB

ETEK®

Adapt to the Main Parameters of RCCB

			
RCCB Ref No.	EKL6-100	EKL6-100B	EKL6-63EV
Standard	IEC/EN61008-1	IEC61008-1, IEC62423	IEC61008-1, IEC62955
Type of trip	Electro-magnetic		
Residual current type	AC, A, A-G / A-SI, A-S	B	A+DC 6mA
No. of poles	2P(1P+N), 4P(3P+N), N Pole on left		
Rated voltage (U _e)	1P+N: 230/240V~, 3P+N: 400/415V~		
Rated currents (I _n)	16,25,32,40,63,80,100A		16,25,32,40,63A
Rated sensitivity currents (I _{Δn})	10,30,100,300mA (10mA only for I _n =16-25A)	30,100,300mA	30mA DC trip threshold(I _{Δdc})=6mA
Rated conditional short-circuit current (I _{nc})	EKL6-100: 6kA EKL6-100H: 10kA	10kA	10kA
Electrical life	2,000 Cycles		
Mechanical life	4,000 Cycles		
Ambient temperature	-25°C to +40°C		-25°C to +55°C
Ground fault indicator	Yes		
Protection degree	IP20		
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar		
Max.terminal size for cable	35mm ²		
Max.tightening torque	2.5N.m		
Installation	Mounting on 35mm DIN rail		
Incoming method	From top and bottom		

Dimension (mm)

