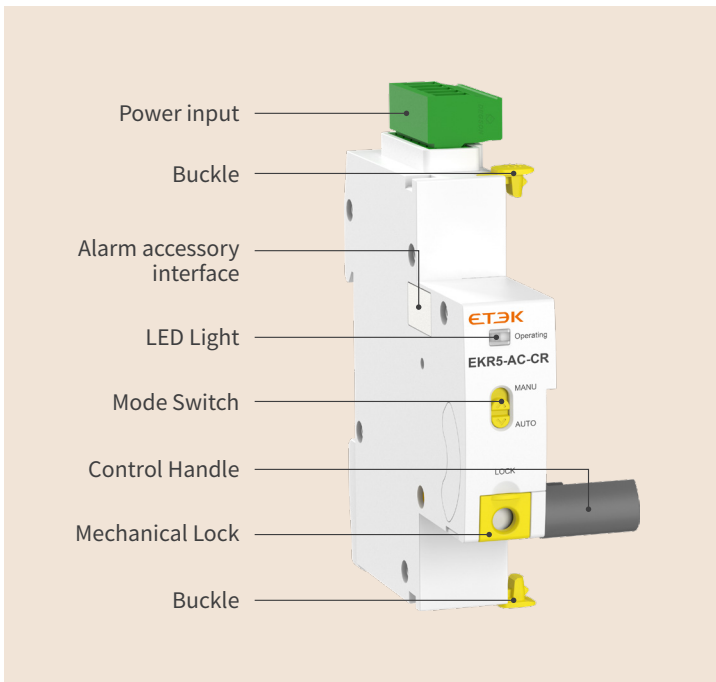


Overview



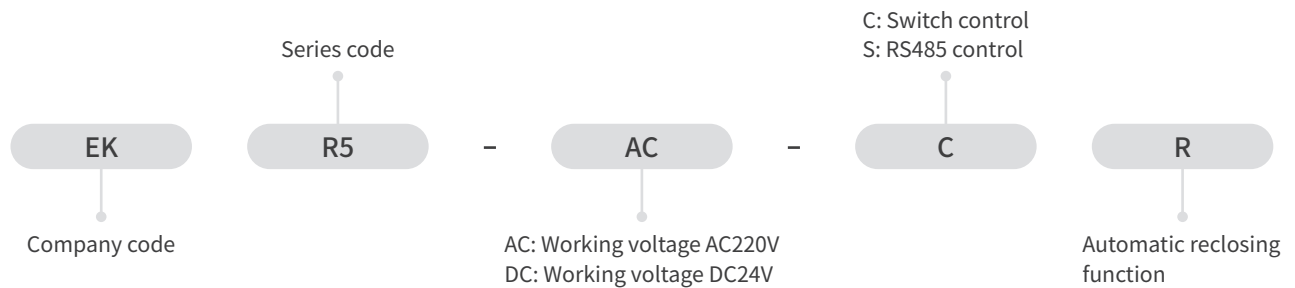
EKR5 is a remote control module that supports switching and RS485 control methods. This module works with RCCB (other products like MCB and RCBO are in development).

At the same time, the module supports an automatic reclosing function (3 times). When the relevant protection device in the line trips at an inopportune time (manual opening, short circuit trip, leakage trip, overload trip, etc.), it will automatically restart to improve the circuit reliability of power supply.

Features

- EKR5 module can be paired with the RCCB. When the protection device accidentally trips, it will automatically reclose without the need for manual intervention, reducing manual maintenance costs and enabling timely troubleshooting to improve efficiency.
- It has a built-in feature for 3 reclosing times.
- It includes a manual/automatic selector switch.
- Alarm auxiliary accessories can be added.
- 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.

Instruction of Type code

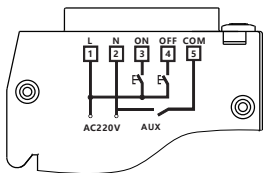


Technical Parameter

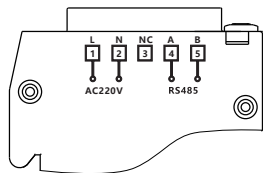
Basics Model				
Model	EKR5-AC-C	EKR5-DC-C	EKR5-AC-S	EKR5-DC-S
Control mode	Switching input control		RS485 control (MODBUS-RTU)	
Power terminals	A1-A2			
Rated supply voltage	AC230V±10%	DC24V±10%	AC230V±10%	DC24V±10%
Power consumption	AC max.1VA(standby) max.20VA(operation)	DC max.1VA(standby) max.20VA(operation)	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 method	Mounting on 35mm DIN rail			
Protection degree	IP20			
Overvoltage category	III			
Pollution degree	2			
Max. terminal size for cable	2.5mm ²			
Dimensions	84×18×78mm			
Matching products	EKL6-100, EKL6-100B, EKL6-63EV			

Built-in automatic recloser				
Model	EKR5-AC-CR	EKR5-DC-CR	EKR5-AC-SR	EKR5-DC-SR
Control mode	Switching input control + automatic reclosing		RS485 control (MODBUS-RTU) + automatic reclosing	
Power terminals	A1-A2			
Rated 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 method	Mounting on 35mm DIN rail			
Protection degree	IP20			
Overvoltage category	III			
Pollution degree	2			
Max. terminal size for cable	2.5mm ²			
Dimensions	84×18×78mm			
Matching products	EKL6-100, EKL6-100B, EKL6-63EV			

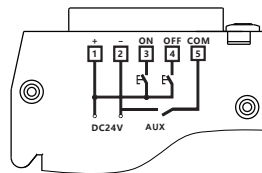
Wiring diagram



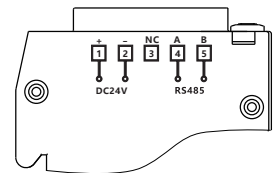
EKR5-AC-C
EKR5-AC-CR



EKR5-AC-S
EKR5-AC-SR



EKR5-DC-C
EKR5-DC-CR






EKR5-DC-S
EKR5-DC-SR

EKR5 Series

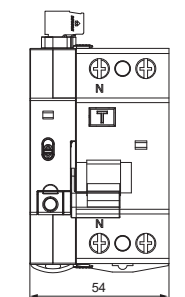
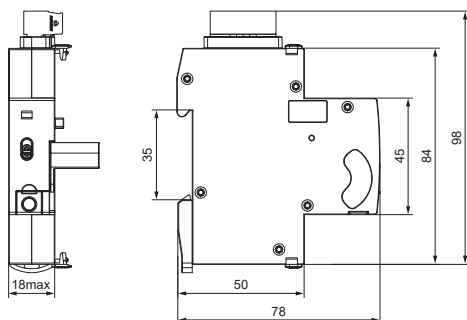
Remote Control Unit for RCCB

ETEK®

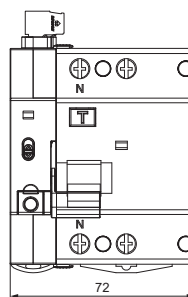
Adapt to the Main Parameters of RCCB

			
RCCB model	EKL6-100	EKL6-100B	EKL6-63EV
Standard	IEC/EN61008-1	IEC61008-1, IEC62423	IEC61008-1, IEC62955
Type of trip	Electro-magnetic		
Type of protection (electric leakage)	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 (Ue)	1P+N: 230/240V~, 3P+N: 400/415V~		
Rated currents (In)	16,25,32,40,63,80,100A		16,25,32,40,63A
Rated sensitivity currents (IΔn)	10,30,100,300mA (10mA only for In=16-25A)	30,100,300mA	30mA DC trip threshold(IΔdc)=6mA
Rated breaking capacity	6,000A, 10,000A	10,000A	10,000A
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		
Connection	From top and bottom		

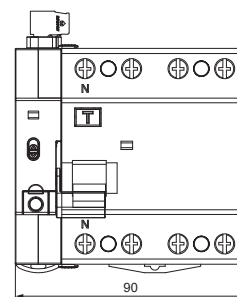
Overall and Installation Dimension (mm)



EKR5 + EKL6-100 2P
EKR5 + EKL6-100B 2P



EKR5 + EKL6-100B 2P
EKR5 + EKL6-63EV 2P



EKR5 + EKL6-100 4P
EKR5 + EKL6-100B 4P
EKR5 + EKL6-63EV 4P