

FR7-63

WIFI Smart Circuit Breaker

WIFI Smart circuit breaker (hereinafter referred to as circuit breaker), suitable for rated operating voltage to 230V/400V, AC 50Hz, rated current to 80A lines. When the personal electric shock or the grid leakage current exceeds the specified value, the circuit breaker can quickly cut off the fault power supply in a very short time, protect the safety of the human body and electrical equipment, and play the role of overload and short circuit protection for the line, and can also be used as the infrequent operation of the line conversion.

This product conforms to GB16917.1, IEC61009-1 standards, with the international advanced level.



Specifications

Rated voltage U_n	230V AC (1P+N, 2P), 400V AC (3P, 3P+N, 4P)
Rated current I_n	6, 10, 16, 20, 25, 32, 40, 50, 63, 80A
Rated residual operating current ($I_{\Delta n}$)	30, 50, 100, 300mA
Rated residual inactive current	0.5 $I_{\Delta n}$
Residual current protection type	AC type
Poles	1P+N, 2P, 3P, 3P+N, 4P
Instantaneous trip form	B, C, D type (can be produced according to user requirements)
Rated short-circuit breaking capacity	$I_{cn}=I_{cs}=6kA$
Rated remaining switching and breaking capacity	500A ($I_{ns} \leq 50A$); 10In ($I_{ns} \geq 63A$)
Remote control automatic closing time (seconds)	$t \leq 3s$
Remote control automatic switching time (seconds)	$t \leq 3s$

Specifications

Overvoltage	overvoltage tripping value 270V-280V, recovery voltage 245V-255V
Undervoltage	undervoltage trip value 160V-170V, recovery voltage 180V-190V
Tightening torque	2.5Nm
Pollution level	Level 2
Protection level	IP20
Installation Category	3 categories

Function description and explanation

Function description	FR7-63	Traditional circuit breaker	Interpretation of meaning
Overload protection	Yes	Yes	When the rated current exceeds the predetermined value, the circuit breaker is disconnected within the predetermined time
Short circuit protection	Yes	Yes	When the short circuit current exceeds the predetermined value, the circuit breaker is disconnected within the predetermined time
Leakage protection	Yes	Yes	When the leakage current exceeds the predetermined value, the circuit breaker is disconnected within the predetermined time
Over and under voltage protection	Yes	No	When the rated voltage exceeds or is lower than a predetermined value, the circuit breaker is disconnected within a predetermined time
Remote control switching	Yes	No	Remote control circuit breaker automatic opening and closing
Overtemperature protection	Yes	No	The internal temperature of the circuit breaker is monitored remotely. When the temperature exceeds the predetermined value, the circuit breaker is disconnected
Load limit	Yes	No	Remote monitoring of circuit breaker load, more than the predetermined value, circuit breaker disconnected
Voltage monitoring	Yes	No	Remote monitoring of circuit breaker operating voltage status
Current monitoring	Yes	No	Remote monitoring of circuit breaker operating current status
Electric energy measurement	Yes	No	Remote monitoring of power usage in the line
Maintenance safety switch	Yes	No	The maintenance safety switch can be opened to prohibit remote control of circuit breaker opening and closing
Automatic switch button	Yes	No	Press the button, the circuit breaker will automatically open or close
Leakage current monitoring	Yes	No	Remote monitoring of circuit breaker leakage current status
Remote timing control switching	Yes	No	Remote control circuit breaker at a fixed time to open and close to achieve energy saving and consumption reduction