

Intelligent Miniature Circuit Breaker PEIB-125



PROJOY
electric
– Switch To Safety! –



All-in-one, Intelligent, Safe and Reliable

Main Functions



Overload Protection



Short circuit Protection



Arc Fault Protection



Leakage Current Protection



Metering Two-Way



Remote Communication

Optional Functions



Over Temperature Protection



Timing



Over/Under Voltage protection



Remotely Reclosing

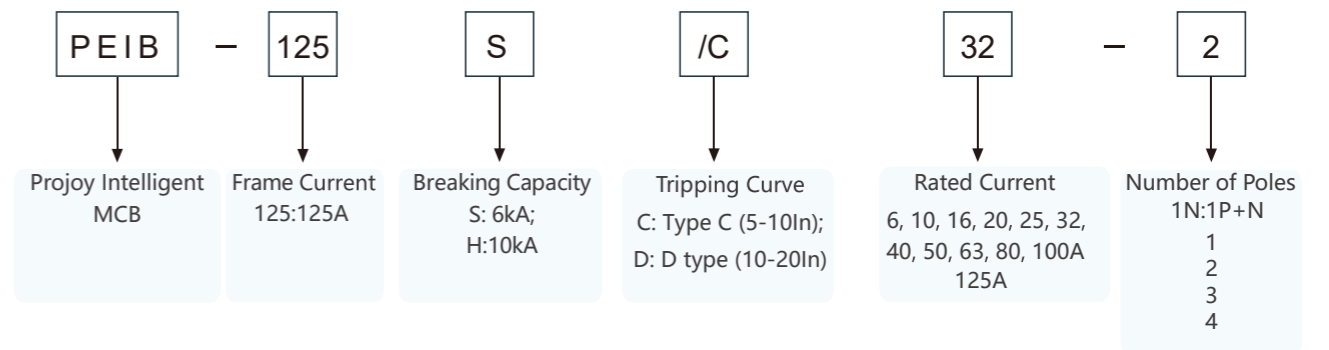


Phase loss Protection

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Naming



Accessories



Power Module

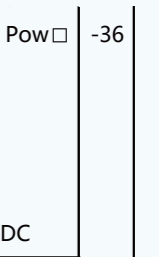
12V Power Source

- Input voltage: AC85-265V
- Output voltage: DC12, DC24, DC48 Optional
- Power: 36W
- Voltage accuracy: ±2%
- Ripple: 50~100mV, 20MHZ
- Standby power consumption: 0.5W

P: Power Module
1:12VDC (Default), 2:24VDC, 3:48VDC

Power: 36W

Remarks: Input and output are phoenix terminals as accessories



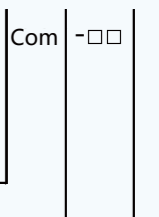
Communication module

- Communication rate: 10/100 Mbps
- Input: RS-485 Cable
- Output: TCP/IP, WiFi, Zigbee, 4G, NB-IoT Optional
- Power input: DC12V, DC24V, DC48V

Communication module

Ti:TCP/IP, Wi:WIFI, ZG:Zigbee, NB: NB-IoT, 4G:4G
(The NANO card needs to be provided by user for 4G.)

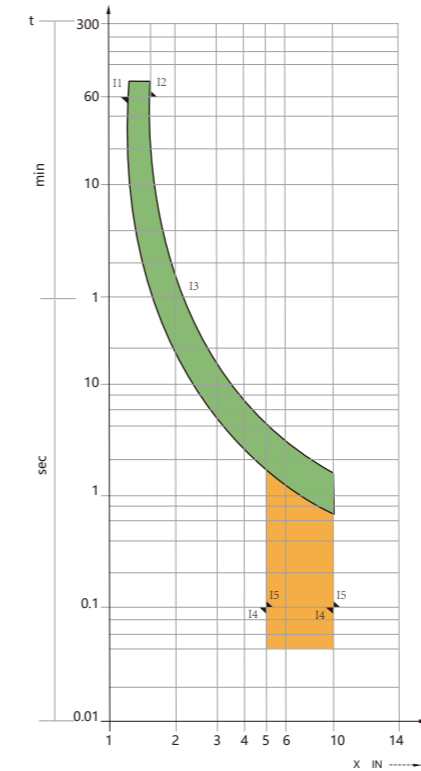
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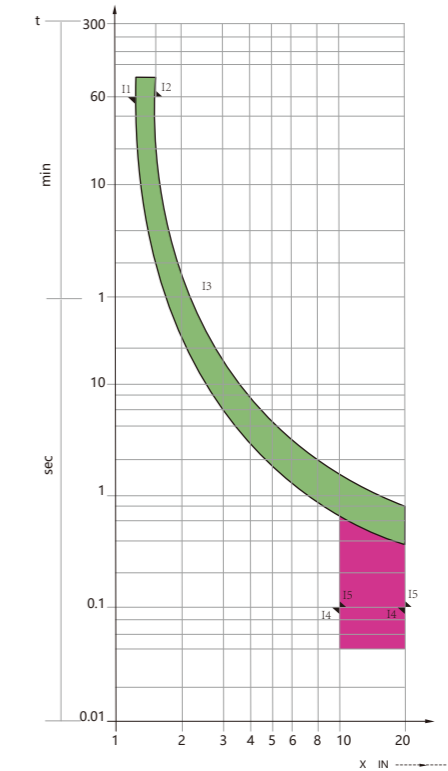
 **Technical data**

Rated current	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A				
Tripping curves	C, D				
Rated operating voltage	230VAC (1PN, 1P, 2P) ; 400VAC (3P, 4P)				
Poles	1PN, 1P, 2P, 3P, 4P				
Rated insulation voltage	500V				
Rated impulse withstand voltage	4kV				
Rated breaking capacity	S : 6kA ; H:10kA				
Time of Remote closing	tc≤3S				
Time of Remote opening	td≤1S				
Mechanical life/Electrical life	20,000 operation cycle / 6,000 operation cycle				
Requirements of Terminals	M7 screw, Torque 3.5Nm; 2.5mm ² ~35mm ² copper cable				
Shell Material	Flame retardant material used, comply with UL94-V0				
Metal Contacts	Final pressure: ≥4N				
Instantaneous tripping characteristics	Tripping curve	Starting	Current	Time	Result
	C	cold state	5In	0.1S	Not trip
		cold state	10In	<0.1S	trip
	D	cold state	10In	0.1S	Not trip
		cold state	20In	<0.1S	trip
Time-delayed tripping characteristics	Tripping curve	Starting	Current	Time	Result
	a	cold state	1.05In	1h (for In≤63A) 2h (for In>63A)	Not trip
	b	hot state after "a"	1.3In	1h (for In≤63A) 2h (for In>63A)	trip
	c	cold state	2.55In	1S<t≤60S (for In≤32A) 1S<t≤120S (for In>32A)	trip
Residual current protection	Tripping type: B type, A type and AC type, Tripping current: 30mA, 50mA, 100mA adjustable Operating type: Instantaneous type and Time-delay type				

 **Tripping Curves**



Type C





Type D

 **Altitude Derating**


Altitude (m)	2000	3000	4000
Rated current	1	0.97	0.91
Rated insulation voltage Ui	1	0.90	0.82
Power frequency withstand voltage	1	0.90	0.82
Rated impulse withstand voltage Uimp	1	0.90	0.82
Rated breaking capacity Icn	1	0.87	0.77
Electrical life	1	0.87	0.77

 **Features**

 **High precision measurement**
0.5% measuring accuracy fo voltage and current. 1% measuring accrcy for active and reactive power.


 **Adjustable alert threshold**
The Protection alarm threshold of voltage, current, cable temperature and residual current and etc is settable.

 **Double tripping drive**
Double tripping drive mechanism, which ensures disconnecting quickly and reliably.

 **Records keeping**
2 years data keeping for building in clock circuit and button battery

 **Self-checking**
Self checking function for residual current is available, by controlling remotely or presetting

 **Remotely control**
Remotely control and support timing function

 **Energy consumption analysis**
Cloud platform supports power generation, power consumption, power factor and other electricity parameters analysis and display

 **Dimensions**

