



GYRD9L-125

Photovoltaic special reclosing miniature circuit breaker

Automatic Reclosing Miniature Circuit Breaker for Photovoltaic System

Product overview

GYRD9L-125 series photovoltaic special reclosing miniature circuit breaker (hereinafter referred to as the circuit breaker), suitable for the line of AC 50HZ, rated working voltage to 400V, rated current to 125A with overvoltage, undervoltage, voltage loss, overload short circuit protection function. At present, broadly used in photovoltaic distribution box.

Accord with GB10963.1 IEC80198.1

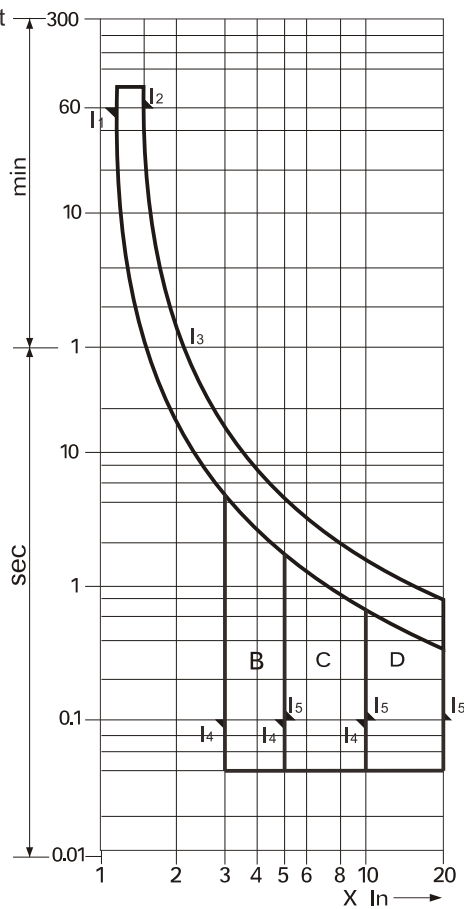
Electrical Characteristics

Data	
Behaviour of electricity	
Number of poles	2P、4P
Function	overvoltage,undervoltage,voltage loss,overload short circuit protection
Shell rating rating Inm	125A
Rated operating voltage: Ue	400V
Rated current In	32、40、50、63、80、100、125A
The type of deduction at the time of the case	C
Rated short-circuit breaking capacity	Ics=Icn=6000A
Mechanical life	10000 Times
Electricity life	4000 Times
Overcurrent trip characteristics	See also in Table 1 and Figure 1
Protection function	
Over-voltage protection value	285V±5V
Over-voltage protection recovery value	275V±5V
Over-voltage protection action delay	1s
Under-voltage protection value	150V±5V
Under-voltage protection recovery value	160V±5V
Delay of under-voltage protection action	1s
Extreme operating voltage	300V
Loss of voltage protection function	Yes
Reset delay	20s~40s
Power consumption	0.5W
Normal working conditions and installation	
Levels of protection	IP20
Connection capacity	1-35mm ²
Use ambient temperature	-40X: -70Z
Anti-wet touch	Class 2
height	w 2000m
Class of pollution	2
Circuit breaker corresponds to the sectional area of copper wire	See, 2
Installation environment	No significant) medium strike and vibration place
Install the category	III
installation	DIN standard guide rail

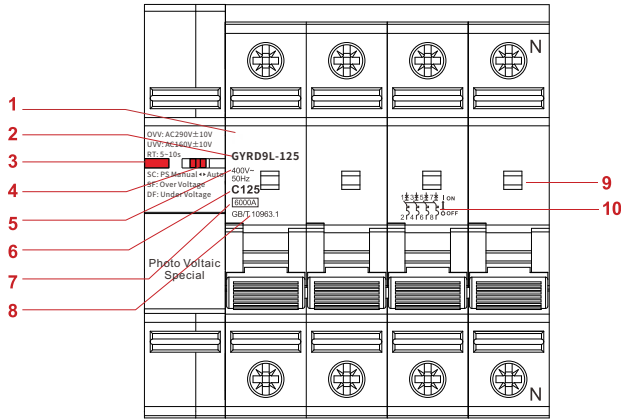
Num	Rated current	Start state	Test current	Specified time	Expected result
1	32,40,50,63	Cold State	1.13I _n	t≤1h	Not Trip
	80,100,125			t≤2h	
2	32,40,50,63	Immediately after the previous test	1.45I _n	t<1h	Trip
	80,100,125			t<2h	
1	I _n ≤32	Cold State	2.55I _n	1s<t<60s	Trip
	I _n >32			1s<t<120s	
4	all model	Cold State	5I _n	t≤0.1s	Trip
			10I _n	t<0.1s	Not Trip

Graph 2

Rated current(A)	≤6	10	16,20	25	32	40, 50	63	80	100	125
wire area (mm ²)	1	1.5	2.5	4	6	10	16	25	35	50



Use and operation indication



- 1: Brand
- 2: Model
- 3: Control signal indicator
- 4: Manual/Auto transfer switch
- 5: Rated working voltage
- 6: Tripping curve and Rated current
- 7: Rated short-circuit capacity
- 8: Indicator window
- 9: Electrical wiring diagram