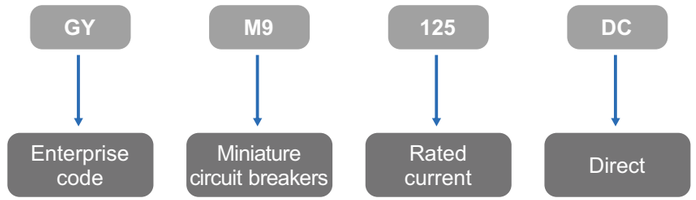


GYM9-125DC

DC Miniature Circuit Breakers

Scope of application

GYM9-125DC series DC miniature circuit breakers (hereinafter referred to as circuit breakers) are suitable for lines with a rated current of 125A and below DC and a rated DC voltage of 250V and 500V. It is used for overload and short-circuit protection of the facilities and electrics of the DC power distribution system, and can be widely used in electric power, post and telecommunications, AC, industrial and mining enterprises and other industries. This product complies with GB14048.2, IEC60947-2 standard requirements.



Product applicable working conditions and working environment

- The ambient air temperature should not exceed +40°C at the highest, and -5°C at the lowest, and the average value should not exceed +35.
- The altitude of the installation site should not exceed 2000m.
- The relative humidity of the atmosphere does not exceed 50% when the highest ambient temperature is +40°C, and can have higher relative humidity at lower temperatures. The monthly average maximum relative humidity of the wettest month is 90%, and the monthly average relative humidity of the month is 90%. The average minimum temperature is +25°C, taking into account condensation on the product surface due to temperature changes.
- The pollution level is 2.
- The installation category is Class II and Class III.
- Use TH35-7.5 steel mounting rail to install.
- The inclination of the installation surface and the vertical surface should not exceed 5°.
- Compress the wiring with screws.
-

Scope of application

GYM9-125DC DC circuit breaker is composed of shell, operating mechanism, thermal release, electromagnetic release contact system, arc extinguishing system, etc. It has overload and short circuit protection functions, unique design structure and powerful permanent magnet arc extinguishing The system enables the product to have a short-circuit capacity of 10kA, a mechanical life of more than 20,000 times, and a beautiful appearance. The installation guide rail is TH35-7.5 standard steel installation rail, and has the following characteristics: The handle is designed above the front face, and it has a strong sense of safety during operation. , feel comfortable, must pay attention to the "+, -" polarity when wiring, the power supply is in and out, which is in line with the characteristics of the power supply line, easy to install and save wires.

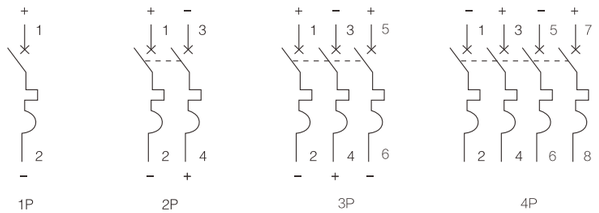
Main specifications and techical paramters

Frame rating rated current Inm (A)	number of poles	Rated voltage (V)	Rated current In (A)	Rated ultimate short-circuit capacity		Instantaneous tripping current
				Breaking current Icu (A)	Time constant T(ms)	
63	1	DC250V	1,2,3,4,6,10 16,20,25,32 40,50,63	10000	10	8In-12In
	2,3	DC500V				
	4	DC1000V				
125	1	DC250V	80, 100, 125	10000	10	8In-12In
	2,3	DC500V				
	4	DC1000V				

Standard Time-Current

Test	DC test current	Starting state	Trip or no-trip time limit	Expercted putcome	Remark
a	1.05In	Cold state	t≥1h(In≤63A) t≥2h(In>63A)	Does not trip	
b	1.3In	Immediately after a test	t<2h(In>63A) t<1h(In≤63A)	trip	The current rises steadily to the specified value within 5S
c	8In	Cold state	t≥0.2s	Does not trip	Close the auxiliary switch power on
	12In		t<0.2s	trip	

Wiring diagram



Dimensions

