



Miniature Circuit Breaker

IEC/EN 60947-2 GB/T 14048.2



GYM9H DC



GYM9H DC Circuit Breaker is designed for DC circuits with a rated voltage up to 1000V and a rated current up to 63A. It provides overload and short-circuit protection and can also be used for infrequent switching operations of circuits. This circuit breaker is suitable for DC system applications, such as communications and photovoltaic (PV) systems.

- ✓ RoHS 2.0 compliant
- ✓ Dual busbar wiring function
- ✓ Transparent marking feature
- ✓ Contact position indicator
- ✓ Wire capacity: 0.5-25mm²



Product Model And Implication

GYM9H	-	DC
Product model		
MCB		Direct-Current

Technical Specification

- ✓ Rated Current(In): 1-63A
- ✓ Rated Voltage(Ue): 1P:250VDC;2P:500VDC; 3P:750VDC;4P:1000VDC
- ✓ Tripping Curves: B、C
- ✓ Rated insulation voltage (Ui) 500V
- ✓ Breaking Capacity: 6kA
- ✓ Poles: 1P、2P、3P、4P
- ✓ Mechanical Life: 20000 times
- ✓ Electrical Life: 4000 times
- ✓ Tightening moment: 2.0N.m
- ✓ Class of protection: IP20

Temperature Compensation

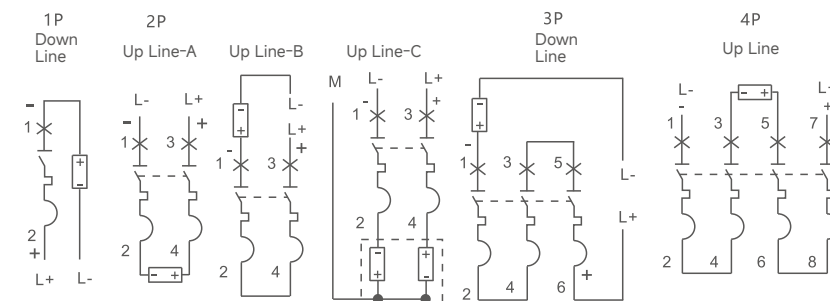
When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

Ambient Temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Factor	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

Performance Characteristic

Tripping Curves	Current (A)	Initial Condition	Time(30°C)	Result
B、C、D	1.13In	Cold state	$t \geq 1h (In \leq 63), t \geq 2h (63 < In \leq 125)$	No tripping
	1.45In	Thermal state	$t \geq 1h (In \leq 63), t \geq 2h (63 < In \leq 125)$	Tripping
	2.55In	Cold state	$1s < t < 120s$	Tripping

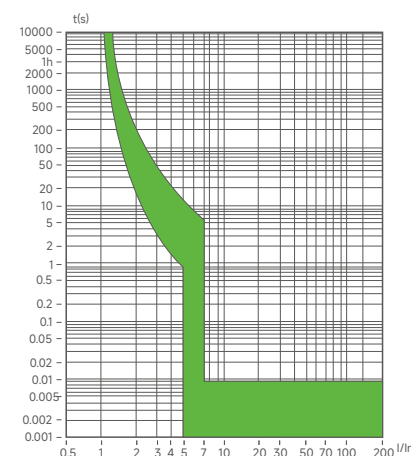
Wiring diagram



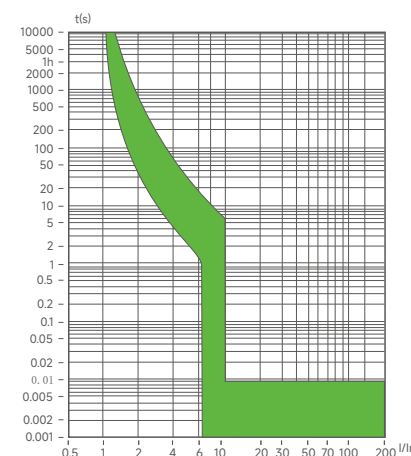
Remark:
1 L+:Positive Pole, L-:Negative Pole;
2 +:MCB of positive pole, -: MCB of negative pole;
3 : Load;
4 DC power supply usually "L-" ground lead, Neutral pole of positive and negative power supply system "M" ground lead;

Tripping Curves

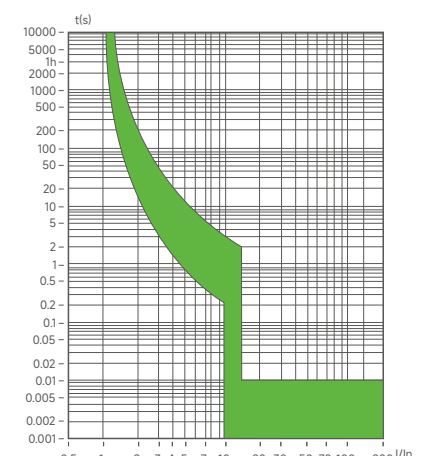
B Type: $6In \pm 20\%$



C Type: $8.5In \pm 20\%$



D Type: $12In \pm 20\%$



Outline Overall And Installing Dimensions

