

Miniature Circuit Breaker

N8GH,10kA

Miniature Circuit Breaker according to IEC/EN60947-2

Rated short circuit breaking capacity 10kA

1 up to 4-pole versions

Tripping characteristics 8-12In

Rated current up to 125A

Rated operational voltage 230/400V AC

Can be connected via standard busbars of both fork as well as pin type of connection



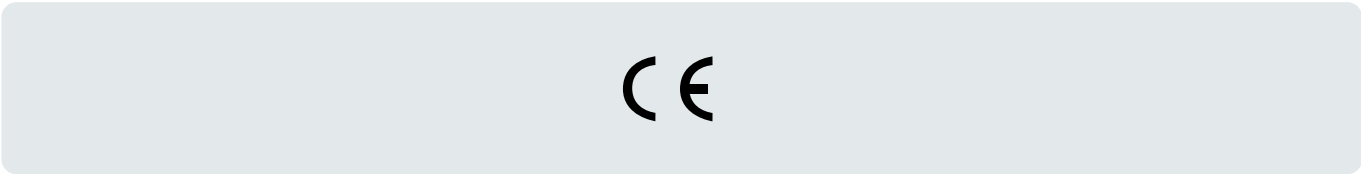
N8GH Miniature Circuit Breaker is suitable mainly for power distribution and industrial applications for short-circuit and overload current protection with rated current up to 125 A and a very high rated breaking capacities (tested according to EN 60947-2).

It also can be used for non-frequent on-and-off switching operations under normal circumstances.

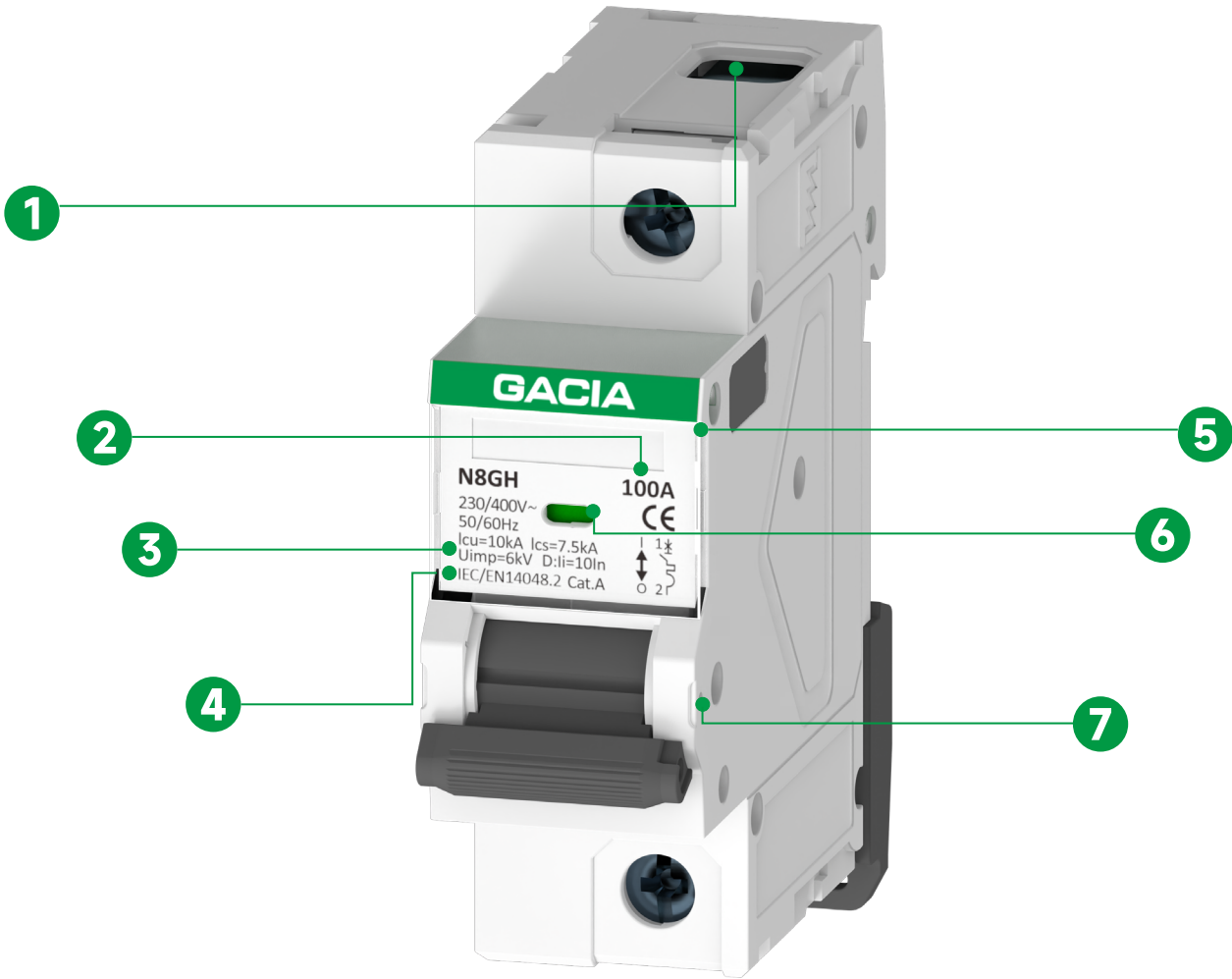
Type Key

N	8	G	H	1P	C	63
Product series	Design code	Product category	Breaking capacity	Poles	Tripping curve	Rated current
N	8	MCB-125	10kA	1,2,3,4	8-12In	63-125A

Certification Marks



Product Tips



- 1 Live line interface

2 Rated current up to 125A

3 Rated short circuit breaking capacity 10000A

4 International standards
- 5 Transparent cover

6 Contacts position indication window

7 The position of handle Lock

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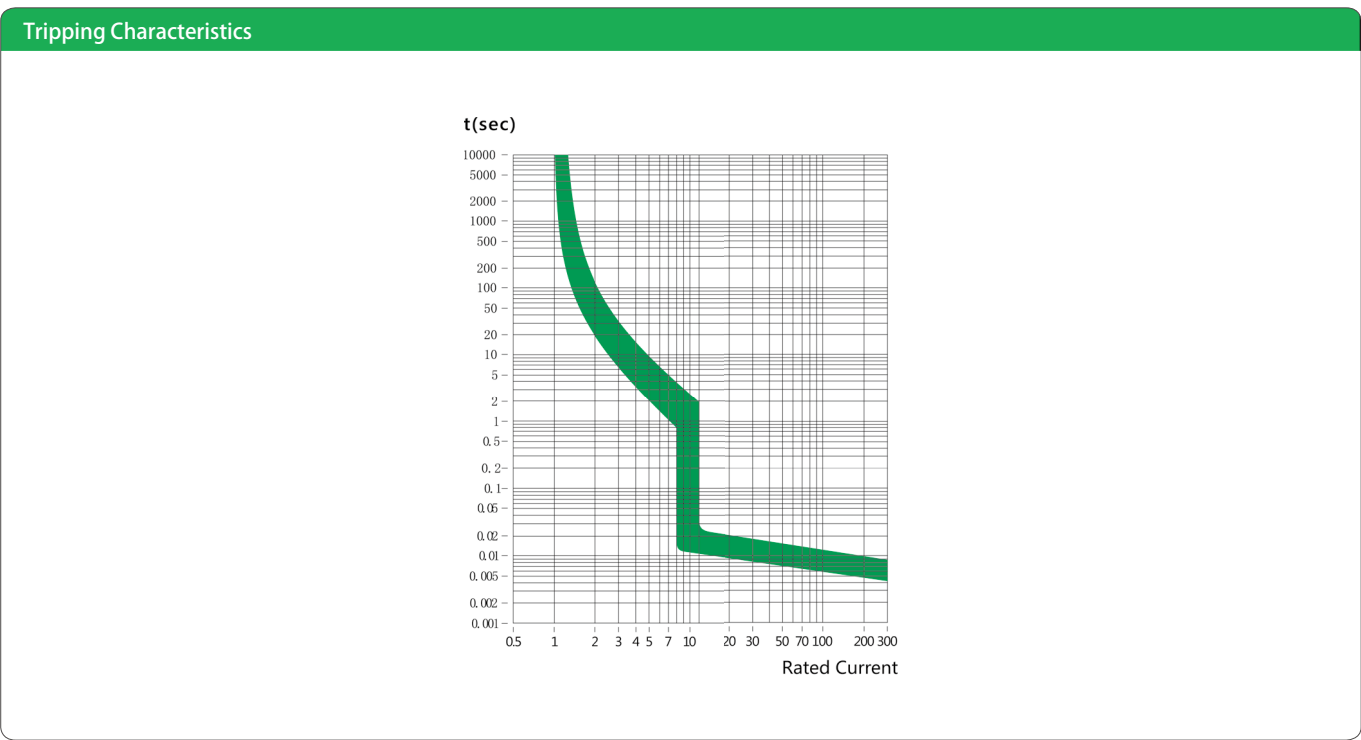
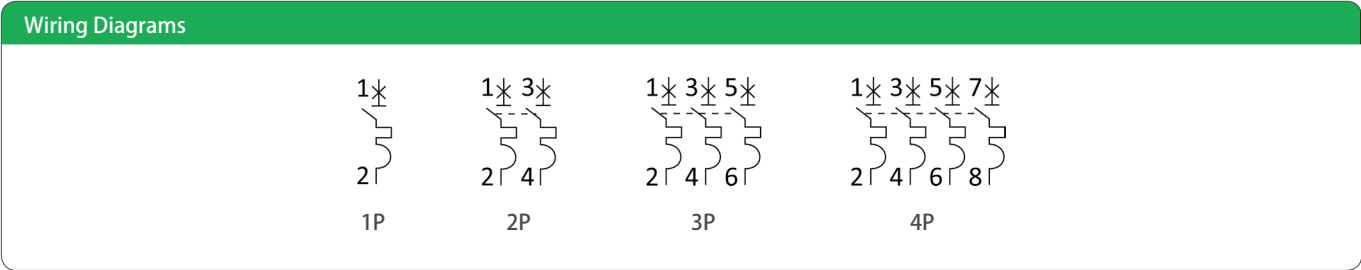
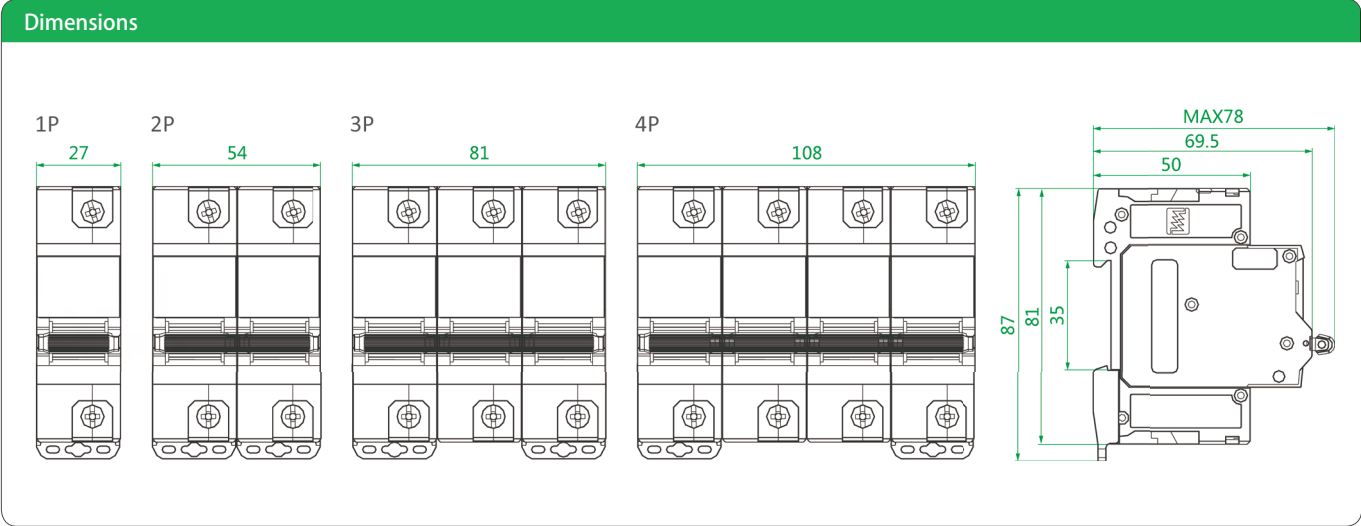
Technical Data

Electrical Features		
International standard		IEC/EN 60947-2
Poles		1P, 2P, 3P, 4P
Rated current		16-125A
Tripping characteristics		8-12In
Rated breaking capacity	I _{cn}	10kA
Rated operational voltage	U _e	230/400V AC
Minimum operational voltage	U _{min}	12V AC
Maximum operational voltage	U _{max}	440V AC
Rated frequency		50/60Hz
Rated insulated voltage	U _i	500V AC
Rated impulse withstand voltage	U _{imp}	6kV
Dielectric test voltage		2kV
Mechanical service life		10000 operation cycles
Electrical service life		4000 operation cycles
Line voltage connection		Arbitrary above or below

Installation Parameters	
Degree of protection (IP)	IP20, IP40 (when fitted)
Operating ambient temperature	-25°C ~+70°C
Terminal connection type	Cable/Busbar
Connectable conductor cross section	2.5-50mm ²
Mounting	IEC/EN 60715 top-hat rail 35mm
Fastening torque of terminals	2-3.5N.m
Pollution degree	2
Reference temperature for setting of thermal element	30°C
Altitude	≤ 2000m
Relative humidity	≤ 95%
Resistance to humidity and heat	Class 2
Installation class	III

Combination with Accessories	
Auxiliary contact	NO
Alarm contact	NO
Shunt release	NO
Shunt release + Aux	NO
Undervoltage release	NO
Overvoltage release	NO
Over & under voltage release	NO

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Dependence of Tripping Characteristics on Ambient Temperature

T [°C]	In (T) [A]								
	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A
-30	20.5	25.3	31.1	40.5	51.3	64.2	82.1	105.2	132.6
-20	19.8	24.5	30.2	39.2	49.2	62.4	79.2	103.1	129.8
-10	19.0	23.7	29.6	37.9	47.5	59.8	76.3	99.1	124.0
0	18.4	22.8	28.2	36.5	45.8	57.4	73.2	94.9	118.1
10	17.6	21.9	27.7	35.0	44.3	55.4	70.0	90.3	113.3
20	16.8	21.0	26.1	33.6	42.0	52.6	66.6	86.7	108.2
30	16	20	25	32	40	50	63	80	100
40	15.4	19.3	24.5	31.4	39.2	48.7	61.6	75.8	94.2
50	15.0	18.8	23.2	30.9	37.6	46.2	58.8	71.3	89.6
60	14.2	18.1	22.1	28.6	35.8	42.6	55.4	67.9	85.1
70	13.5	17.7	20.6	27.5	33.1	38.3	50.5	66.3	82.2

Power Loss Per Pole

In [A]	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A
P[W]	2.1	2.5	2.9	3.1	3.8	4.4	5.6	6.7	7.7