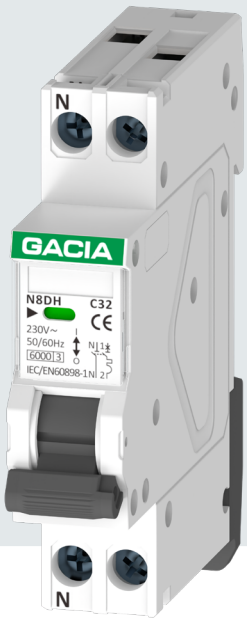
Miniature Circuit Breaker
N8DH, 6kA

- Miniature Circuit Breaker according to IEC/EN 60898-1
- Rated short circuit breaking capacity 6kA
- 1+N pole MCB in one module design
- Tripping characteristics B, C
- Rated current up to 32A
- Rated operational voltage 230/400V AC



N8DH miniature circuit breaker is an automatically operated electrical switch designed to protect an electrical circuit from damage caused by excess current from an overload or short circuit. Its basic function is to interrupt current flow after a fault is detected. They are common in domestic, commercial and industrial application.

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

Type Key

N	8	D	H	B	16
Product series	Design code	Product category	Breaking capacity	Tripping curve	Rated current
N	8	MCB 1P+N	6kA	B,C	1-32A

Certification Marks

CE KEMA KEUR

Miniature Circuit Breaker
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Product Tips

1. Neutral line interface
2. Tripping characteristics B, C
3. Rated short circuit breaking capacity 6000A
4. International standards
5. Live line interface
6. Contacts position indication window
7. Transparent cover
8. The position of handle Lock

Technical Data

Electrical Features		
International standard		IEC/EN 60898-1
Poles		1P+N
Rated current		1-32A
Tripping characteristics		B, C
Rated breaking capacity	I_{cn}	6kA
Rated operational voltage	U_e	230V AC
Minimum operational voltage	U_{min}	12V AC
Maximum operational voltage	U_{max}	240V AC
Rated frequency		50/60Hz
Rated insulated voltage	U_i	400V AC
Rated impulse withstand voltage	U_{imp}	4kV
Dielectric test voltage		2kV
Mechanical service life		10000 operation cycles
Electrical service life		4000 operation cycles
Line voltage connection		Arbitrary above or below

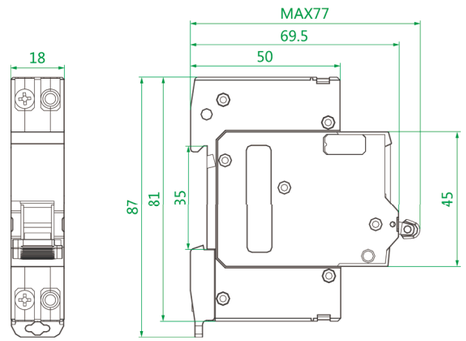
Installation Parameters	
Degree of protection (IP)	IP20, IP40 (when fitted)
Operating ambient temperature	-25℃ ~+70℃
Terminal connection type	Cable
Connectable conductor cross section	1-10mm^2
Mounting	IEC/EN 60715 top-hat rail 35mm
Fastening torque of terminals	2.0N.m
Pollution degree	2
Reference temperature for setting of thermal element	30℃
Altitude	⩽ 2000m
Relative humidity	⩽ 95%
Resistance to humidity and heat	Class 2
Installation class	III

Combination with Accessories	
Auxiliary contact	Yes
Alarm contact	Yes
Shunt release	Yes
Shunt release + Aux	Yes
Undervoltage release	Yes
Overvoltage release	Yes
Over & under voltage release	Yes

N8DH, 6kA

Technical Data

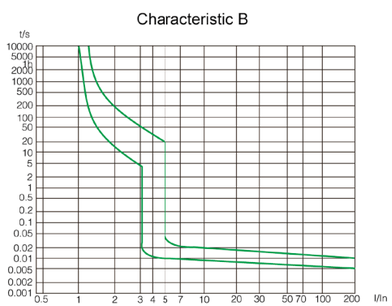
Dimensions

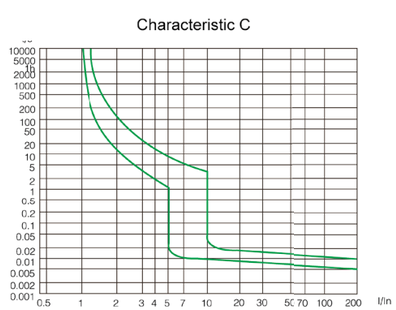


Wiring Diagrams

1P+N

Tripping Characteristics





Technical Data

Dependence of Tripping Characteristics on Ambient Temperature

T [℃]	In (T) [A]									
	1 A	2 A	3 A	4 A	6 A	10 A	16 A	20 A	25 A	32 A
-20	1.35	2.6	4.1	5.3	8	13.5	20	24.5	29.8	39.5
-15	1.28	2.53	4.05	5.15	7.8	13.3	19.8	24.3	29.7	39.3
-10	1.25	2.4	3.95	5.08	7.6	13	19.5	24	29.5	39
-5	1.2	2.33	3.9	4.98	7.3	12.7	19.2	23.8	29.3	38.8
0	1.18	2.3	3.8	4.8	7.2	12.5	19.1	23.7	29.2	38.6
5	1.15	2.28	3.6	4.72	7	12.3	18.8	23.5	29	38.4
10	1.1	2.23	3.45	4.65	6.8	12.1	18.6	23.3	28.8	38.2
15	1.08	2.18	3.35	4.52	6.6	12	18.5	23.1	28.6	38
20	1.05	2.09	3.22	4.31	6.4	11.8	18.3	22.8	28.4	37.8
25	1.05	2.03	3.08	4.22	6.2	11.5	18	22.6	28.2	37.5
30	1	2	3	4	6	10	16	20	25	32
35	0.99	1.98	2.98	3.95	6	9.9	15.7	19.7	24.6	31.5
40	0.97	1.95	2.95	3.91	5.9	9.8	15.4	19.3	24.3	31.1
45	0.95	1.91	2.91	3.85	5.83	9.8	15.1	18.8	24	30.8
50	0.91	1.88	2.88	3.8	5.72	9.6	14.9	18.5	23.8	30.1
55	0.89	1.85	2.82	3.74	5.65	9.5	14.7	18.2	23.5	29.5
60	0.86	1.81	2.77	3.71	5.5	9	14.5	17.8	23	28.5
65	0.84	1.77	2.73	3.65	5.4	8.6	14	17.5	22	27.5
70	0.81	1.71	2.65	3.52	5.2	8	13.8	17.3	21.5	27