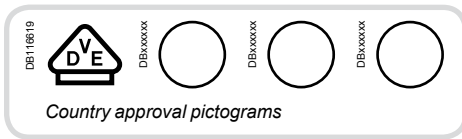


NG125H circuit breakers (curve C)



IEC/EN 60947-2

■ NG125H circuit breakers are circuit breakers which combine the following functions:

- circuit protection against short circuit currents,
- circuit protection against overload currents,
- suitability for isolation in the industrial sector to IEC/EN 60947-2,
- tripping upon fault is indicated by a red mechanical state indicator light on the front face of the circuit breaker.



NG125H 1P



NG125H 2P



NG125H 3P



NG125H 4P

Alternating current (AC) 50/60 Hz

Ph/Ph (2P, 3P, 4P)	Voltage (Ue)						Service breaking capacity (Ics)		
	-	-	220 to 240 V	-	380 to 415 V	440 V		500 V	
Ph/N (1P)	110 to 130 V	220 to 240 V	-	380 to 415 V	-	-	-		
Rating (In)	10 to 80 A	70 kA	36 kA	70 kA	9 kA ⁽²⁾	36 kA	30 kA	12 kA	75 % of Icu

Direct current (DC)

Ph/Ph (2P, 3P, 3P+N, 4P)	Voltage (Ue)				Service breaking capacity (Ics)	
	-	-	250 V	500 V		
Ph/N (1P)	60 V	125 V	-	-		
Number of poles	1P	1P	2P	4P		
Rating (In)	10 to 80 A	36 kA	36 kA	36 kA	36 kA	100 % of Icu

Catalogue numbers

NG125H circuit breaker

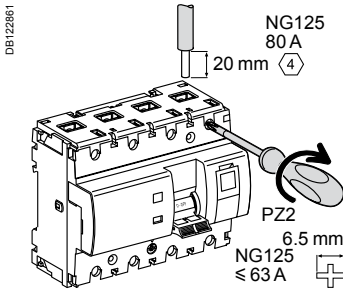
Type	1P	2P	3P	4P	
Auxiliaries	Remote indication and tripping, module CM907005 – Vigi NG125 add-on residual current device, module CM902008				
Rating (In)	Quality label (1)	Curve C	Curve C	Curve C	Curve C
10 A		18705	18714	18723	18732
16 A		18706	18715	18724	18733
20 A		18707	18716	18725	18734
25 A		18708	18717	18726	18735
32 A		18709	18718	18727	18736
40 A		18710	18719	18728	18737
50 A		18711	18720	18729	18738
63 A		18712	18721	18730	18739
80 A		18713	18722	18731	18740
Width in 9 mm modules		3	6	9	12
Accessories	Module CM907006				

(1) Information to be supplied by the country concerned.

(2) Breaking capacity under 1 pole in IT isolated neutral system (case of a double fault).

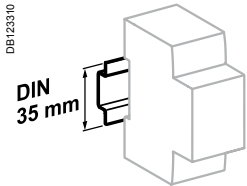
NG125H circuit breakers (curve C) (cont.)

Connection

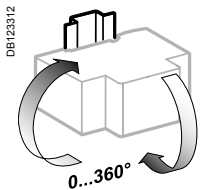


Rating	Tightening torque	Without accessories		With accessories				
		Copper cables		70 mm ² Al terminal	Screw-on connection for ring terminal	Small ring terminal	Multi-cable terminal	
		Rigid	Flexible or with ferrule				Rigid cables	Flexible cables
10 to 63 A	3.5 N.m	DB122945 1.5 to 50 mm ²	DB122946 1 to 35 mm ²	-	-	-	3 x 16 mm ²	3 x 10 mm ²
80 A	6 N.m	16 to 70 mm ²	10 to 50 mm ²	DB122488 25 to 70 mm ²	DB118789 2 x 35 mm ² 1 x 50 mm ²	DB118787 1 x 70 mm ²		

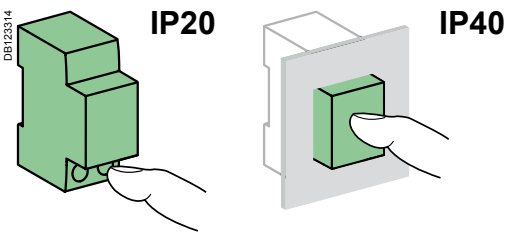
■ On 3P and 4P 80 A: upstream voltage taps for each pole, by 6.35 mm Fast-on terminal.



Clips on to 35 mm DIN rail.



Any installation position.



Technical data

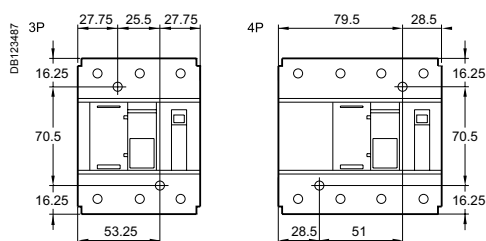
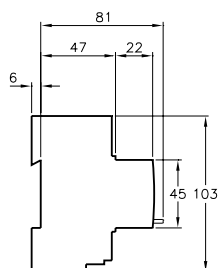
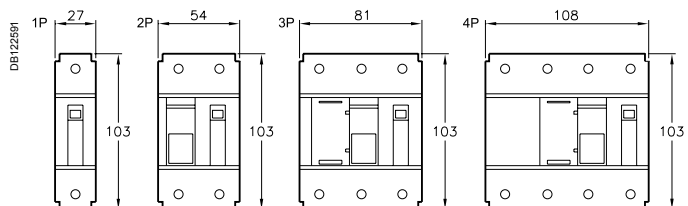
Main characteristics		
According to IEC/EN 60947-2		
Insulation voltage (U _i)		690 V AC
Degree of pollution		3
Rated impulse withstand voltage (U _{imp})		8 kV
Thermal tripping	Reference temperature	40°C
Magnetic tripping (I _i)	Curve C	8 I _n ± 20 %
Utilization category		A
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Endurance (O-C)	Electrical	≤ 63 A: 10,000 cycles ≥ 63 A: 5000 cycles
	Mechanical	20,000 cycles
Operating temperature		-30°C to +70°C
Storage temperature		-40°C to +70°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity of 95 % at 55°C)

NG125H circuit breakers (curve C) (cont.)

Weight (g)

Circuit breaker	
Type	NG125H
1P	240
2P	480
3P	720
4P	960

Dimensions (mm)



Spacing for mounting on panel

NG125H circuit breakers (curve C) (cont.)

056918N_SE-90

- 3P, 4P 80 A**
- Voltage taps:
 - auxiliaries power supply
 - measurement
 - emergency stop
 - remote reporting



- 1P, 2P**
- Padlocking in position:
 - O or I, manual control is inhibited, tripping is enabled

- Cable strength:
 - ribbed cage
 - terminal depth
 - tightening by Allen hex key (NG125 80 A)

- Test button to check satisfactory operation of the tripping mechanism



- Pull-out strength:
 - metallic lock

- Impact and vibration resistance:
 - high-strength enclosure
 - IK 05

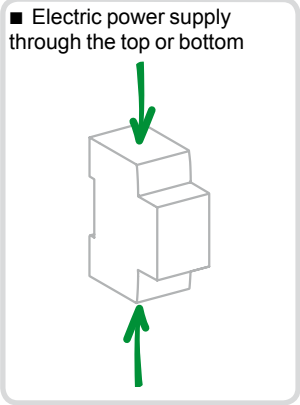
- 3P, 4P**
- Integrated padlocking device



- Central manual control, 3 positions:
 - ON
 - tripped on fault
 - open

- Circuit breaker tripped indicator

- Positive contact indication:
 - suitability for isolation in the industrial sector to IEC/EN 60947-2
 - she presence of the green strip guarantees that the contacts open physically and allows work to be carried out safely on the downstream circuit



DB 125483

- Longer product service life due to:
 - good overvoltage withstand capacity,
 - high limitation performances,
 - fast closure independent of the speed of actuation of the toggle.