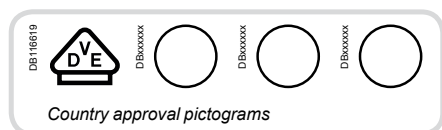


NG125N circuit breakers (curves B, C, D) (cont.)



IEC/EN 60947-2

■ NG125N circuit breakers are circuit breakers which combine the following functions:

- circuit protection against short-circuit currents,
- circuit protection against overload currents,
- stability 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.



NG125N 1P



NG125N 2P



NG125N 3P



NG125N 4P

Alternating current (AC) 50/60 Hz								
Breaking capacity (Icu) to IEC/EN 60947-2								Service breaking capacity (Ics)
Ph/Ph (2P, 3P, 3P+N, 4P)	Voltage (Ue)							
	110 to 130 V	220 to 240 V	220 to 240 V	380 to 415 V	440 V	500 V		
Rating (In)	10 to 125 A	50 kA	25 kA	50 kA	6 kA ⁽²⁾	25 kA	20 kA	10 kA
								75 % of Icu

Direct current (DC)					
Breaking capacity (Icu) according to IEC/EN 60947-2					
	Voltage (Ue)				
	12 to 125 V	≤ 144 V	≤ 250 V	≤ 375 V	≤ 500 V
Number of poles	1P	2P	3P	4P	
Rating (In)	10 to 125 A	25 kA	20 kA	20 kA	20 kA
					100 % of Icu

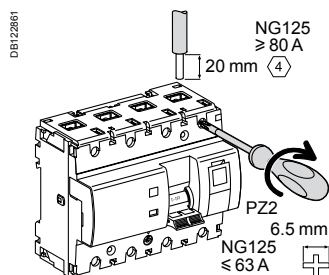
Catalogue numbers

NG125N circuit breaker											
Type	1P		2P		3P			3P+N		4P	
Auxiliaries		Remote indication and tripping, module CM907004 and CM907005									
Vigi NG125		Vigi NG125 add-on residual current device, module CM902008									
Rating (In)	Quality label ⁽¹⁾	Curve	Curve	Curve			Curve	Curve			
		C	C	B	C	D	C	B	C	D	
10 A		18610	18621	-	18632	-	-	-	18649	-	
16 A		18611	18622	-	18633	-	-	-	18650	-	
20 A		18612	18623	-	18634	-	-	-	18651	-	
25 A		18613	18624	-	18635	-	-	-	18652	-	
32 A		18614	18625	-	18636	-	-	-	18653	-	
40 A		18615	18626	-	18637	-	-	-	18654	-	
50 A		18616	18627	-	18638	-	-	-	18655	-	
63 A		18617	18628	-	18639	-	-	-	18656	-	
80 A		18618	18629	18663	18640	18669	18646	18666	18658	18672	
100 A	-	-	-	18664	18642	18670	18647	18667	18660	18673	
125 A	-	-	-	18665	18644	18671	18648	18668	18662	18674	
Width in 9 mm modules		3	6	9			12	12			
Accessories		Module CM907004 and 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).

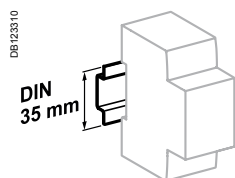
NG125N circuit breakers (curves B, C, D) (cont.)

Connection

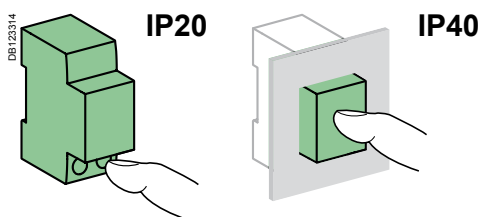


Rating	Tightening torque	Without accessories		With accessories				
		Copper cables		70 mm ² Al terminal	Screw-on connection for ring terminal	Small ring terminal	Multi-cable terminal	
		Rigid	Flexible or with ferrule				Rigid cables	Flexible cables
		DB122345	DB122346	DB123410	DB123488	DB118789	DB118787	
10 to 63 A	3.5 N.m	1.5 to 50 mm ²	1 to 35 mm ²	-	-	-	3 x 16 mm ²	3 x 10 mm ²
80 to 125 A	6 N.m	16 to 70 mm ²	10 to 50 mm ²	25 to 70 mm ²	2 x 35 mm ² 1 x 50 mm ²	1 x 70 mm ²		

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



Clips on to 35 mm DIN rail.



Technical data

Main characteristics

According to IEC/EN 60947-2

Insulation voltage (Ui)	690 V AC
Degree of pollution	3
Rated impulse withstand voltage (Uimp)	8 kV
Thermal tripping	Reference temperature
Magnetic tripping (Ii)	Curve B
	Curve C
	Curve D
Utilization category	A

Additional characteristics

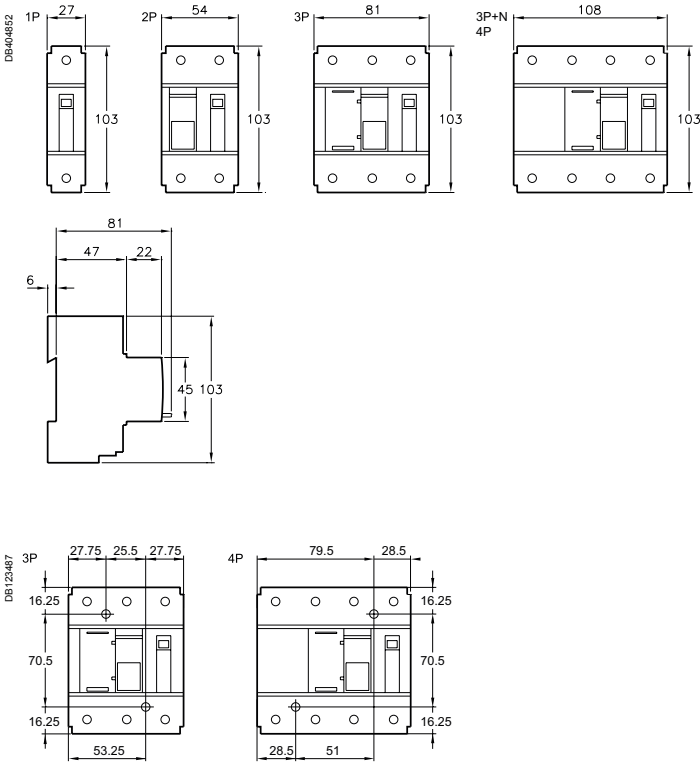
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Endurance (O-C)	Electrical	≤ 63 A: 10,000 cycles ≥ 63 A: 5000 cycles
	Mechanical	20,000 cycles
Operating temperature		-30°C to +70°C
Storage temperature		-40°C to +70°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity of 95 % at 55°C)

NG125N circuit breakers (curves B, C, D) (cont.)

Weight (g)

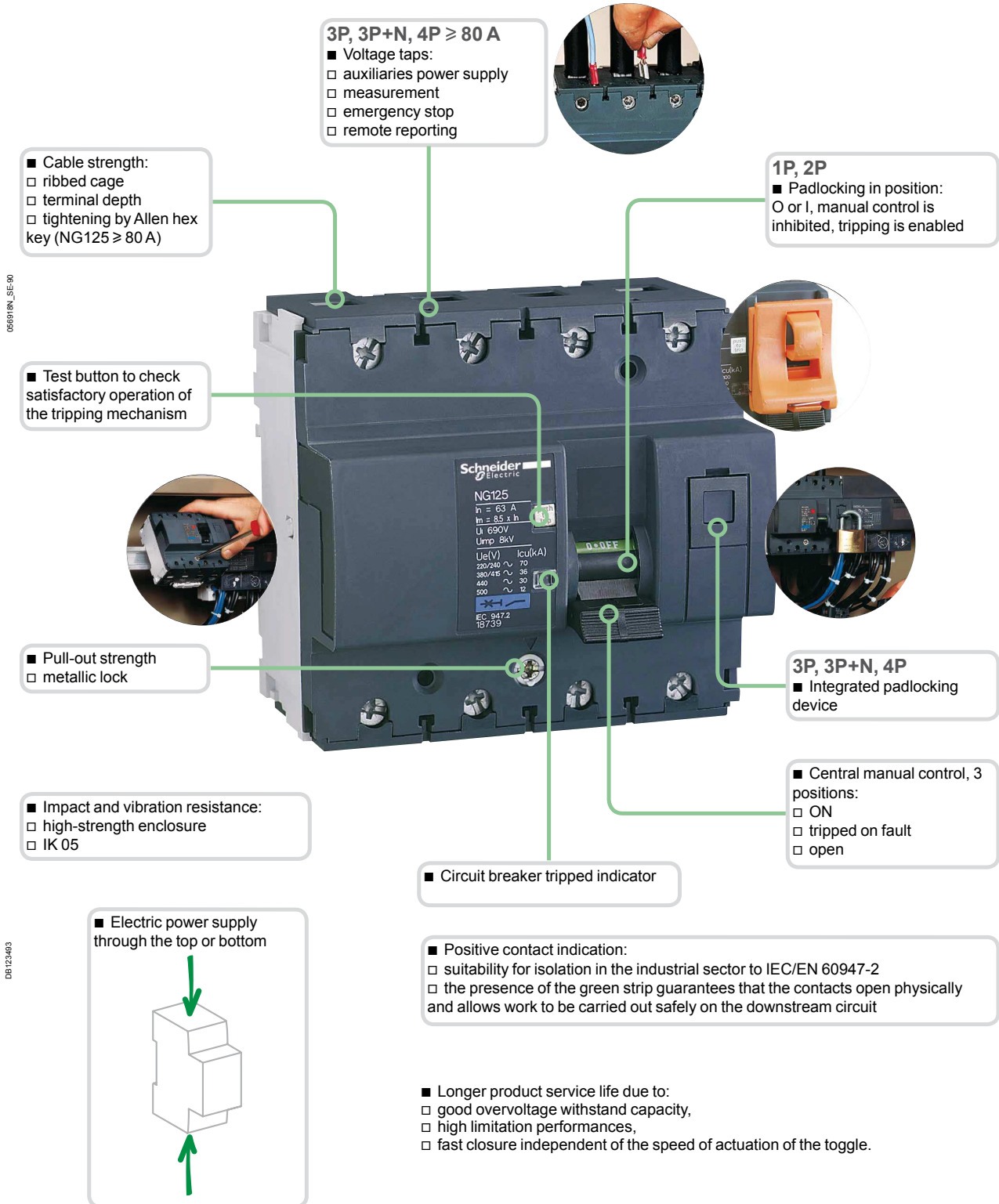
Circuit breaker	
Type	NG125N
1P	240
2P	480
3P	720
3P+N	960
4P	960

Dimensions (mm)

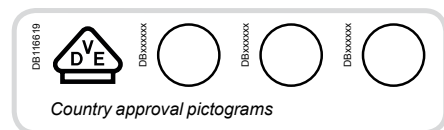


Spacing for mounting on panel

NG125N circuit breakers (curves B, C, D) (cont.)



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

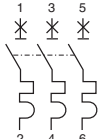
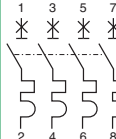


NG125H 4P

Alternating current (AC) 50/60 Hz							
Breaking capacity (Icu) to IEC/EN 60947-2							
	Voltage (Ue)						
Ph/Ph (2P, 3P, 4P)	-	-	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)							
Breaking capacity (Icu) according to IEC/EN 60947-2							
	Voltage (Ue)						
	12 to 125 V		≤ 144 V	≤ 250 V	≤ 375 V	≤ 500 V	
Number of poles	1P	2P	3P	4P			
Rating (In)	10 to 80 A	36 kA	25 kA	25 kA	25 kA	25 kA	100 % of Icu

Catalogue numbers

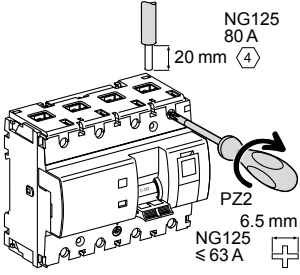
NG125H circuit breaker						
Type		1P	2P	3P	4P	
		E45092 	E45094 	E45095 	E45097 	
Auxiliaries		Remote indication and tripping, module CM907004 and CM907005				
Vigi NG125		Vigi NG125 add-on residual current device, module CM902008				
Rating (In)	Quality label ⁽¹⁾	Curve C	Curve C	Curve C	Curve C	
10 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 CM907004 and CM907006				

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

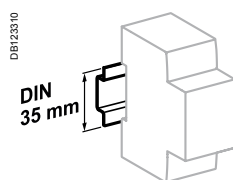
(2) Breaking capacity under 1 pole in IT isolated neutral system (case of a double fault).

NG125H circuit breakers (curve C) (cont.)

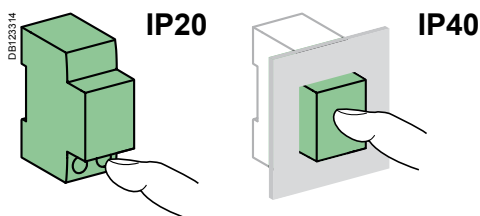
Connection

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
 DB122801	3.5 N.m	 DB122945	 DB122946	 DB123410	 DB123488	 DB118789	 DB118787	
	6 N.m	1.5 to 50 mm ²	1 to 35 mm ²	-	-	-	3 x 16 mm ²	3 x 10 mm ²
		16 to 70 mm ²	10 to 50 mm ²	25 to 70 mm ²	2 x 35 mm ² 1 x 50 mm ²	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.



Technical data

Main characteristics

According to IEC/EN 60947-2

Insulation voltage (Ui)	690 V AC
Degree of pollution	3
Rated impulse withstand voltage (Uimp)	8 kV
Thermal tripping	Reference temperature
Magnetic tripping (li)	Curve C
Utilization category	A

Additional characteristics

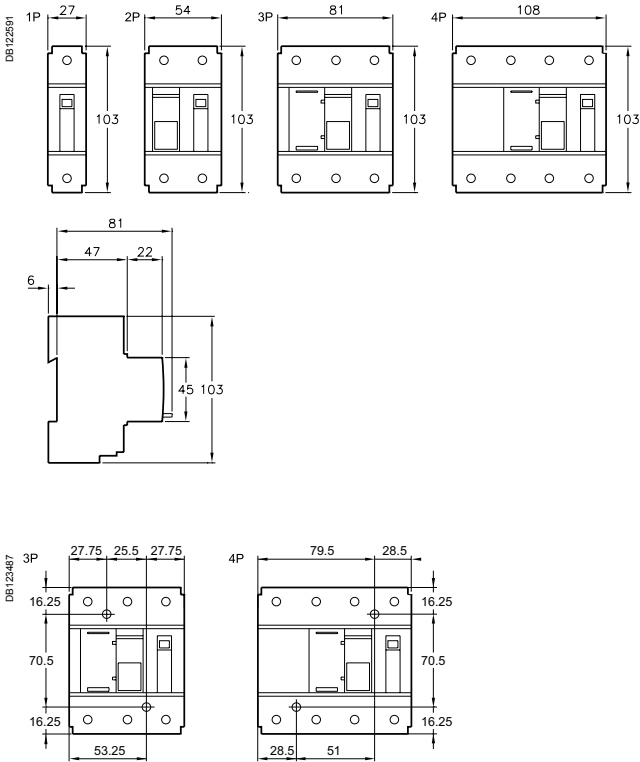
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Endurance (O-C)	Electrical	≤ 63 A: 10,000 cycles ≥ 63 A: 5000 cycles
	Mechanical	20,000 cycles
Operating temperature	-30°C to +70°C	
Storage temperature	-40°C to +70°C	
Tropicalization (IEC 60068-1)	Treatment 2 (relative 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

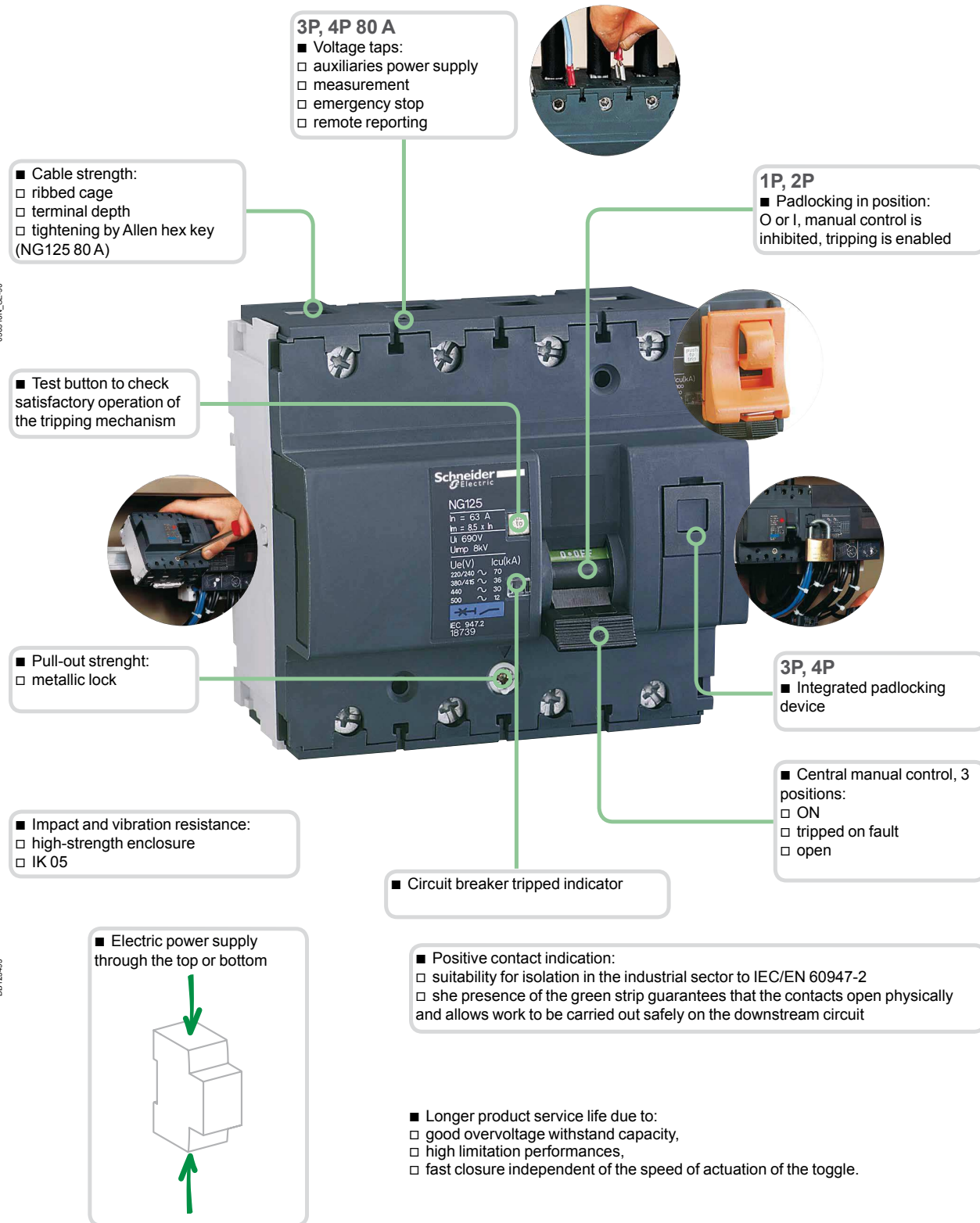
Dimensions (mm)



Spacing for mounting on panel

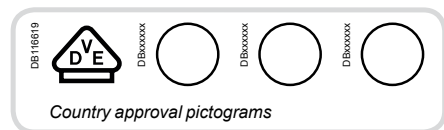
NG125H circuit breakers (curve C) (cont.)

056918N_SE-90



DE122493

NG125L circuit breakers (curves B, C, D)



IEC/EN 60947-2

■ NG125L 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.



NG125L 1P

NG125L 2P



NG125L 3P



NG125L 4P

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) to IEC/EN 60947-2

Voltage (Ue)	Service breaking capacity (Ics)					
	110 to 130 V	220 to 240 V	220 to 240 V	380 to 415 V	440 V	500 V
Ph/Ph (2P, 3P, 4P)	-	-	220 to 240 V	-	380 to 415 V	500 V
Ph/N (1P)	110 to 130 V	220 to 240 V	-	380 to 415 V	-	-
Rating (In)	10 to 80 A	100 kA	50 kA	100 kA	12.5 kA ⁽²⁾	50 kA
					40 kA	15 kA
						75 % of Icu

Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2

Voltage (Ue)	Service breaking capacity (Ics)			
	12 to 125 V	≤ 144 V	≤ 250 V	≤ 375 V
Number of poles	1P	2P	3P	4P
Rating (In)	10 to 80 A	50 kA	36 kA	36 kA
			36 kA	36 kA
				36 kA
				100 % of Icu

Catalogue numbers

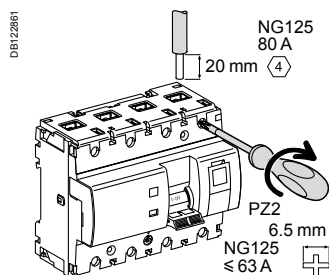
NG125L circuit breaker													
Type	1P			2P			3P			4P			
	E44902			E44904			E44906			E44907			
Auxiliaries		Remote indication and tripping, module CM907004 and CM907005											
Vigi NG125		Vigi NG125 add-on residual current device, module CM902008											
Rating (In)	Quality label (1)	Curve			Curve			Curve			Curve		
		B	C	D	B	C	D	B	C	D	B	C	D
10 A		18741	18777	18830	18750	18788	18839	18759	18799	18848	18768	18810	18857
16 A		18742	18778	18831	18751	18789	18840	18760	18800	18849	18769	18811	18858
20 A		18743	18779	18832	18752	18790	18841	18761	18801	18850	18770	18812	18859
25 A		18744	18780	18833	18753	18791	18842	18762	18802	18851	18771	18813	18860
32 A		18745	18781	18834	18754	18792	18843	18763	18803	18852	18772	18814	18861
40 A		18746	18782	18835	18755	18793	18844	18764	18804	18853	18773	18815	18862
50 A		18747	18783	18836	18756	18794	18845	18765	18805	18854	18774	18816	18863
63 A		18748	18784	18837	18757	18795	18846	18766	18806	18855	18775	18817	18864
80 A		18749	18785	18838	18758	18796	18847	18767	18807	18856	18776	18818	18865
Width in 9 mm modules		3			6			9			12		
Accessories		Module CM907004 and 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).

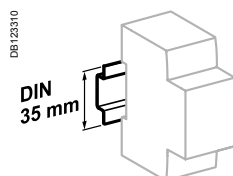
NG125L circuit breakers (curves B, C, D) (cont.)

Connection

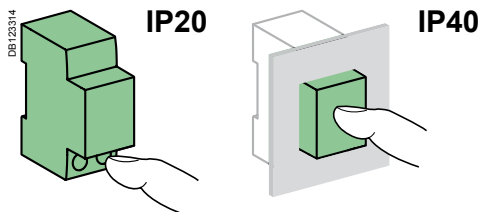


Rating	Tightening torque	Without accessories		With accessories				
		Copper cables		70 mm ² Al terminal	Screw-on connection for ring terminal	Small ring terminal	Multi-cable terminal	
		Rigid	Flexible or with ferrule				Rigid cables	Flexible cables
		DB122945	DB122946	DB123410	DB123488	DB118789	DB118787	
10 to 63 A	3.5 N.m	1.5 to 50 mm ²	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	25 to 70 mm ²	2 x 35 mm ² 1 x 50 mm ²	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.



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
Magnetic tripping (I _m)	Curve B
	Curve C
	Curve D
Utilization category	A

Additional characteristics

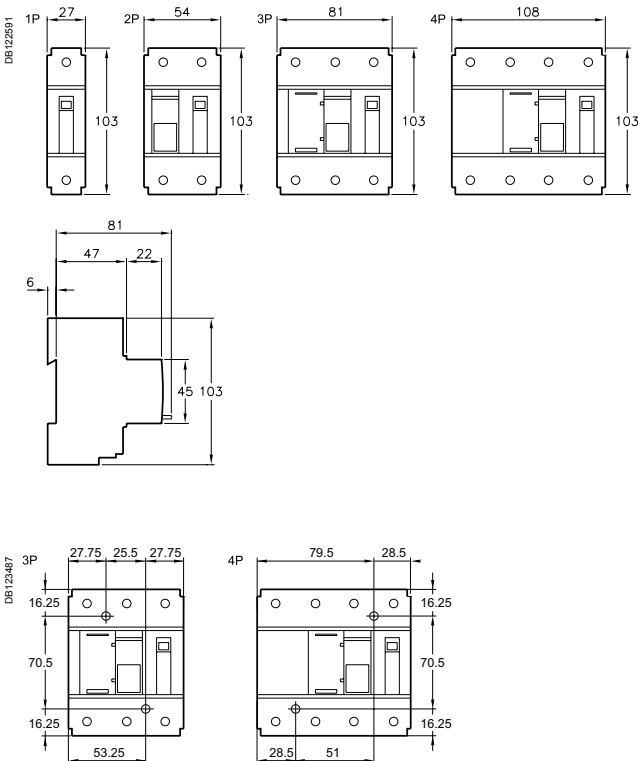
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Endurance (O-C)	Electrical	≤ 63 A: 10,000 cycles ≥ 63 A: 5000 cycles
	Mechanical	20,000 cycles
Operating temperature	-30°C to +70°C	
Storage temperature	-40°C to +70°C	
Tropicalization (IEC 60068-1)	Treatment 2 (relative humidity of 95 % at 55°C)	

NG125L circuit breakers (curves B, C, D) (cont.)

Weight (g)

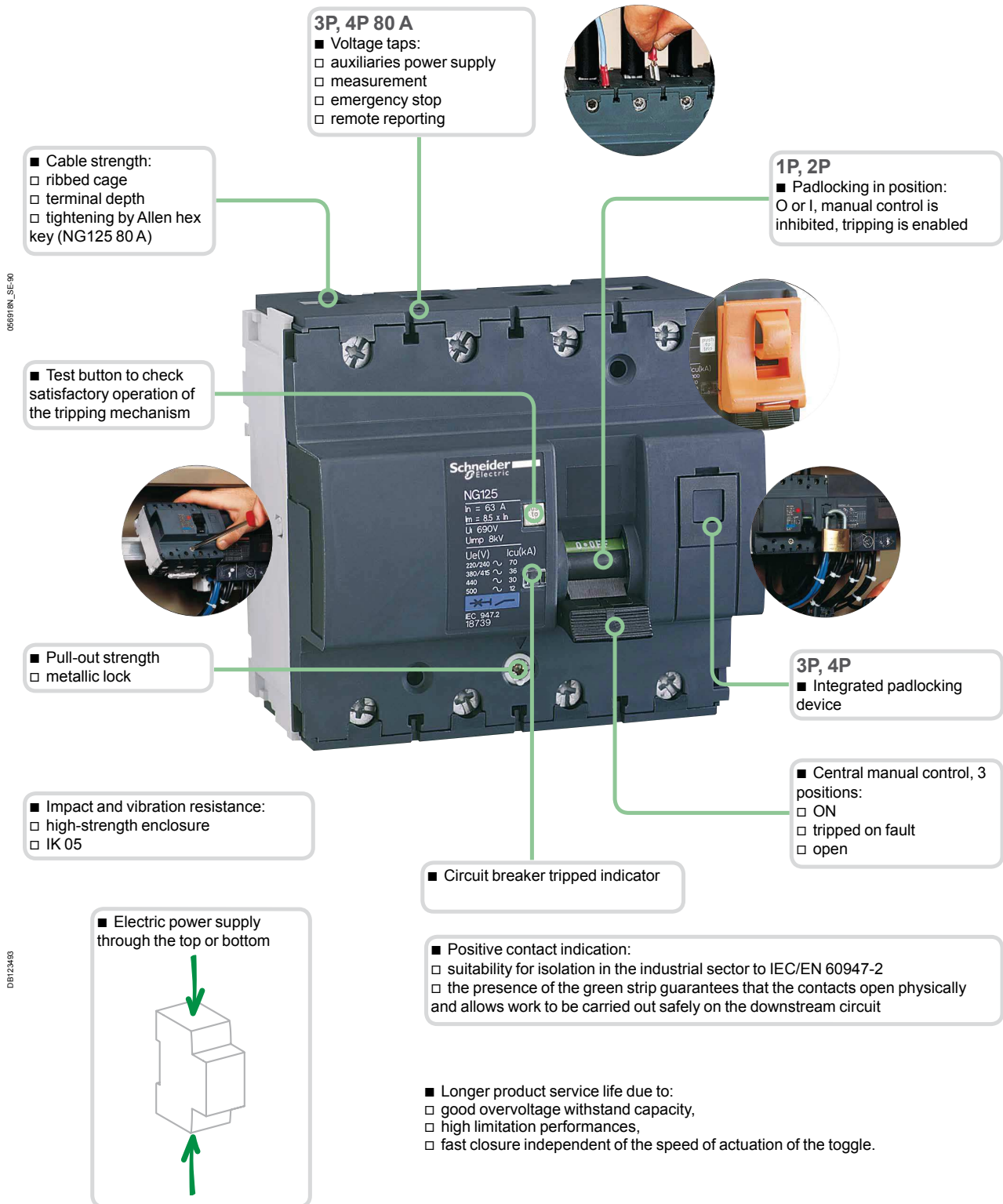
Circuit breaker	
Type	NG125L
1P	240
2P	480
3P	720
4P	960

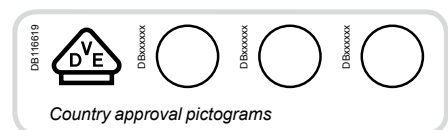
Dimensions (mm)



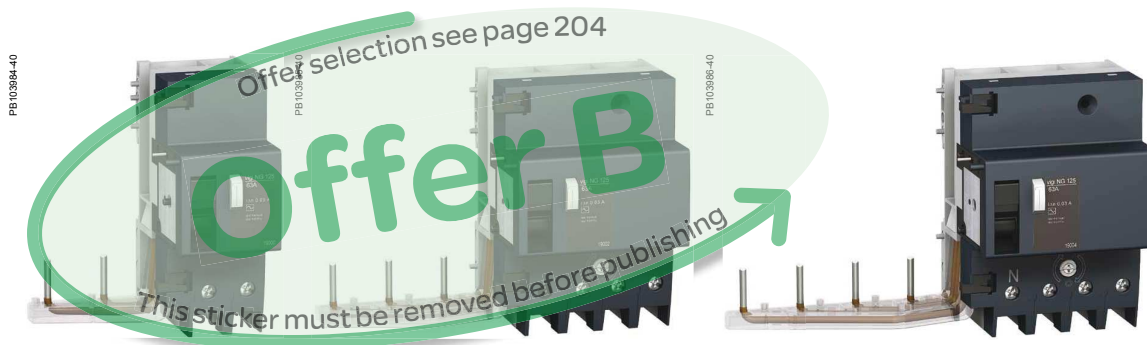
Spacing for mounting on panel

NG125L circuit breakers (curves B, C, D) (cont.)





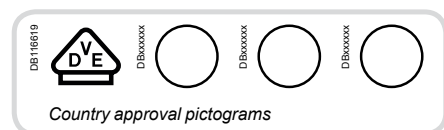
IEC/EN 60947-2



- When it is combined with an NG125 circuit breaker, the Vigi NG125 add-on residual current device offers the following functions:
 - protection of persons against electric shocks by direct contact (30 mA),
 - protection of persons against electric shocks by indirect contact (300 mA),
 - protection of installations against fire risks (300 mA).

Catalogue numbers

Vigi NG125 add-on residual current devices					
Type	AC			Width in 9 mm modules	
Product	Vigi NG125				
Auxiliaries	Without auxiliaries				
2P	Sensitivity	30 mA	300 mA		
 DB122462	Rating 63 A	19000	19001	5	
3P	Sensitivity	30 mA	300 mA		
 DB122463	Rating 63 A	19002	19003	9	
4P	Sensitivity	30 mA	300 mA		
 DB122464	Rating 63 A	19004	19005	9	
Voltage rating (Ue)		230 - 240 V, 400 - 415 V			
Operating frequency		50/60 Hz			
Accessories		Module CM907006			



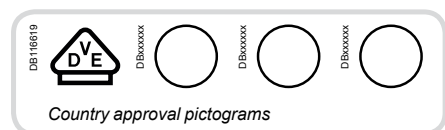
IEC/EN 60947-2



- When it is combined with an NG125 circuit breaker, the Vigi NG125 add-on residual current device offers the following functions:
- protection of persons against electric shocks by direct contact (30 mA),
 - protection of persons against electric shocks by indirect contact (≥ 300 mA),
 - protection of installations against fire risks (300 mA or 500 mA).

Catalogue numbers

Vigi NG125 add-on residual current devices								
Type	A							Width in 9 mm modules
Product	Vigi NG125							
Auxiliaries	Module CM907005							
2P	Sensitivity	30 mA	300 mA	300 mA	1000 mA	300...1000 I/S	300...3000 I/S/R	
 DB12462	Rating 63 A	19010 19008 (1)	19012 19009 (1)	19030	19031	-	-	5
3P	Sensitivity	30 mA	300 mA	300 mA	1000 mA	300...1000 I/S	300...3000 I/S/R	
 DB12463	Rating 63 A	19013	19014	19032	19033	-	-	9
		-	-	-	-	-	19036 19053 (2)	11
	125 A	19039	-	-	-	19044	19047 19055 (2)	11
4P	Sensitivity	30 mA	300 mA	300 mA	1000 mA	300...1000 I/S	300...3000 I/S/R	
 DB12464	Rating 63 A	19015	19016	19034	19035	-	-	9
		-	-	-	-	-	19037 19054 (2)	11
	125 A	19041	19042	-	-	19046	19049 19056 (2)	11
Voltage rating (Ue)		230 - 240 V, 400 - 415 V Except: (1) 110...220 V and (2) 440...500 V						
Operating frequency		50/60 Hz						
Accessories		Module CM907006						



IEC/EN 60947-2

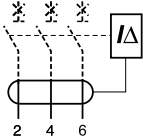
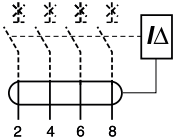


- When it is combined with an NG125 circuit breaker, the Vigi NG125 add-on residual current device offers the following functions:
 - protection of persons against electric shocks by direct contact (30 mA),
 - protection of persons against electric shocks by indirect contact (≥ 300 mA),
 - protection of installations against fire risks (300 mA or 500 mA).

SI types are appropriate for operating in environments with:

- High risk of nuisance tripping: frequent lightning strikes, IT system, presence of electronic ballasts, frequency converters, presence of switchgear incorporating lighting type interference filters, computer system, etc.
- Blind sources
 - presence of harmonics or high frequency rejections,
 - presence of DC components: diodes, diode bridges, switch-mode power supplies, etc.
- Protected against nuisance tripping caused by transient voltage surges (lightning strike, operation of switchgear on the network, etc.).

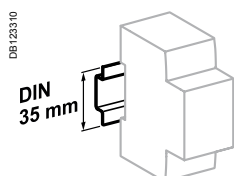
Catalogue numbers

Vigi NG125 add-on residual current devices					
Type	SI 			Width in 9 mm modules	
Product	Vigi NG125				
Auxiliaries	Module CM907005				
3P	Sensitivity	30 mA	300...3000 I/S/R		
	Rating 125 A	19100	19106	11	
4P	Sensitivity	30 mA	300...3000 I/S/R		
	Rating 125 A	19101	19107	11	
Voltage rating (Ue)		230 - 240 V, 400 - 415 V			
Operating frequency		50/60 Hz			
Accessories	Module CM907006				

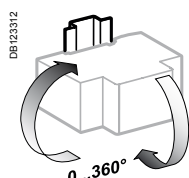
Vigi NG125 add-on residual current devices (AC, A, *SI* types)

Connection

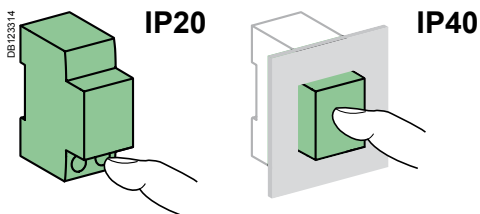
	Rating	Tightening torque	Without accessories			With accessories	
			Copper cables			70 mm ² Al terminal	Screw-on connection for ring terminal
			Rigid	Flexible or ferrule	Screw clamp terminal		
DB123404			DB122446	DB122446	DB123409	DB123410	DB123488
	63 A	3.5 N.m	1.5 to 50 mm ²	1 to 35 mm ²	-	-	-
DB123405	125 A	6 N.m	16 to 70 mm ²	10 to 50 mm ²	-	25 to 70 mm ²	2 x 35 mm ² 1 x 50 mm ²
DB123408	Pre-alarm	1 N.m	2 x 2.5 mm ²	2 x 1.5 mm ²	2 x 1.5 mm ²	-	-



Clip on DIN rail 35 mm.



Indifferent position of installation.



Technical data

Main characteristics		
Insulation voltage (Ui)		690 V
Pollution degree		3
Rated impulse withstand voltage (Uimp)		8 kV
According to IEC/EN 61009-1		
Surge current withstand (8/20 µs) without tripping	Selective ☒ or R	5 kA
	Instantaneous	3 kA
Additional characteristics		
Degree of protection	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature	AC type	-5°C to +60°C
	A and <i>SI</i> types	-25°C to +60°C
Storage temperature		-40°C to +85°C
Additional characteristics		
Vigi 125 A and adjustable		
Plug-in auxiliaries	MXV	Remote tripping
	SDV	Indication of tripping upon earth fault
Adjustable Vigi		
Sensitivity adjustable by notch (IΔn)		300, 500, 1000, 3000 mA
Tripping time	Instantaneous	
	Selective ☒	60 ms
	Time-delayed	150 ms
Leakage current indication on 3P and 4P 300...3000 I/S/R (pre-alarm)		On front face by LED
		Remote, by potential-free normally-open contact 250 V - 1 A (low level)
		Threshold setting by potentiometer from 10 % to 50 % of IΔn
Disconnection essential for dielectric test		By integral pushbutton

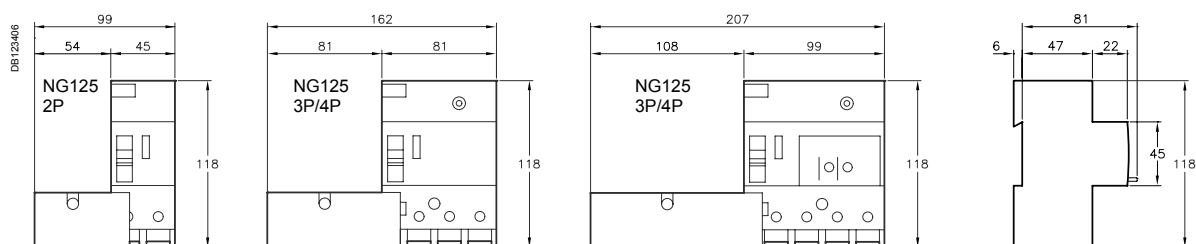
Vigi NG125 add-on residual current devices (AC, A, S/ types) (cont.)

Weight (g)

Add-on residual current devices

Number of 9 mm modules	2P	3P	4P
5 modules	250	-	-
9 modules	-	410	450
11 modules	-	750	800

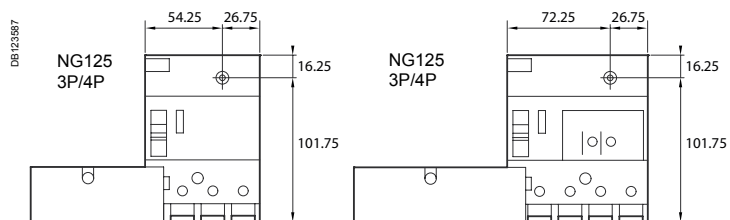
Dimensions (mm)



2P (5 modules)

63, 125 A (9 modules)

63, 125 A (11 modules)



Spacing for mounting on panel

Vigi NG125 add-on residual current devices (AC, A, S/ types) (cont.)

056341_SE-50

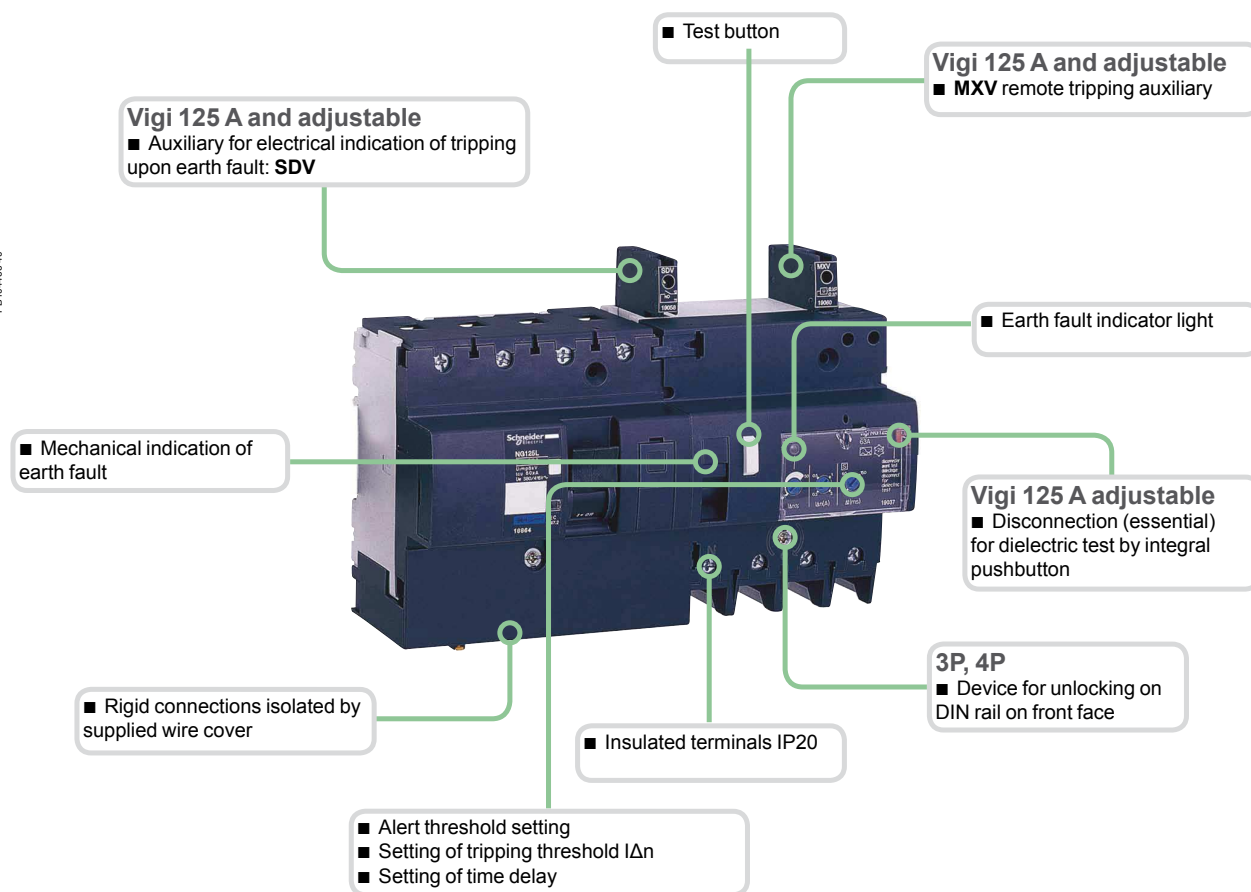


Association NG125 + Vigi NG125

	Vigi NG125 63 A	Vigi NG125 125 A
NG125 ≤ 63 A	■	NO
NG125 80...125 A*	NO	■

(*) No Vigi add-on residual current device for 2P circuit breakers of rating 80 A.

PB104466-40



S/ type

S/ types are appropriate for operating in environments with:

- High risk of nuisance tripping: frequent lightning strikes, IT system, presence of electronic ballasts, frequency converters, presence of switchgear incorporating lighting type interference filters, computer system, etc.
- Blind sources
 - presence of harmonics or high frequency rejections,
 - presence of DC components: diodes, diode bridges, switch-mode power supplies, etc.
- Protected against nuisance tripping caused by transient voltage surges (lightning strike, operation of switchgear on the network, etc.).

Connection

6	Comb busbar	see module	CM907007
7	Splitter blocks	Distribloc 125 A	see module CM907008
8	70 mm ² Al terminal		19095
9	Multi-cable terminal	4 parts	19091
		3 parts	19096
10	Screw-on connection for ring	125 A (pack of 4)	19093
11	Small ring terminal	(pack of 4)	19094

Mounting accessories

12	Sealable terminal shield (upstream/downstream)	1P	19080
		2P	19081
		3P	19082
		4P	19083
13	Residual current device terminal shield (upstream of circuit breaker / downstream of Vigi device)	63 A 2P	19074
		3P	19075
		3P adjustable	19077
		4P	19076
		4P adjustable	19078
		125 A 3P	19077
		4P	19078
14	Circuit breaker screw shield	1P (pack of 10)	19084
		2P	19085
		3P	19086
		4P	19087
15	Rotary handle		
	Extended standard	Black	19088
	Extended safety	Red handle, yellow	19089
	Direct standard	Black	19092
	Direct safety	Red handle, yellow background	19097
16	Padlocking device	(pack of 10)	19090
17	White toggle	(pack of 10)	19099

Electrical auxiliaries

Indication

3	Fault indicating auxiliary contact OF+SD	19071
	Open/closed auxiliary contact OF+OF	19072

Tripping devices

2	Undervoltage release MN or undervoltage release with external power supply MNx	see module CM907005
	Shunt release MX+OF	see module CM907005

Vigi NG125

1	Vigi NG125 add-on residual current device5	see module CM902008
4	MXV	see module CM907005
5	SDV	see module CM907005

