C120N circuit breakers (curves B, C, D)


PB107914-30


PB107917-40


PB107920-30


PB107923-30

IEC/EN 60898-1, IEC 60947-2

C120N circuit breakers are multistandard circuit breakers that 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,
- fault tripping and indication by adding auxiliaries.

Alternating current (AC) 50/60 Hz						
Breaking capacity (Icu) to IEC/EN 60947-2						**Service breaking capacity (Ics)**
Type		**Voltage (V)**				
1P		**130 V**	**220 to 240 V**	**380 to 415 V**	**440 V**	
Rating (In)	63 to 125 A	20 kA	10 kA	3 kA (1)	-	75 % of Icu
2P/3P/4P		**130 V**	**220 to 240 V**	**380 to 415 V**	**440 V**	
	63 to 125 A	-	20 kA	10 kA	6 kA	75 % of Icu
Breaking capacity (Icn) to IEC/EN 60898-1						
Type		**Voltage (V)**				
1P, 2P, 3P, 4P		**230 to 400 V**				
Rating (In)	63 to 125 A	10000 A				75 % of Icn

(1) One-pole breaking capacity in IT isolated neutral system (double fault).

Direct current (DC)						
Breaking capacity (Icu) according to IEC/EN 60947-2						**Service breaking capacity (Ics)**
		Voltage (Ue)				
Between +/-		**12 to 125 V**	**≤ 144 V**	**≤ 250 V**	**≤ 375 V**	**≤ 500 V**
Number of poles		**1P**		**2P**	**3P**	**4P**
Rating (In)	63 to 125 A	15 kA	10 kA	10 kA	10 kA	10 kA	100 % of Icu

Catalogue numbers

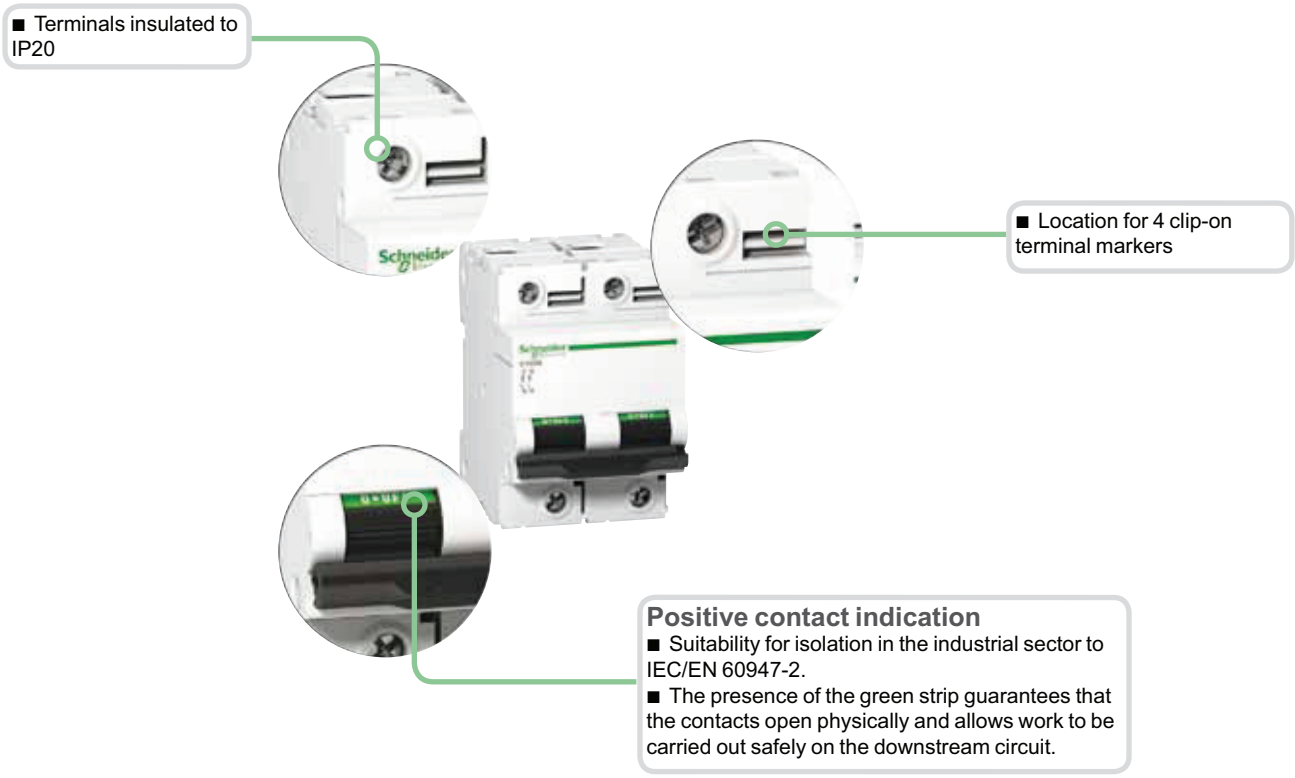
C120N circuit breaker

Type	**1P**			**2P**		
						
Auxiliaries	**Remote indication and tripping, module CA907008 and CA907013**			**Remote indication and tripping, module CA907008 and CA907013**		
Vigi C120	**Vigi C120 add-on residual current device, module CA902016**			**Vigi C120 add-on residual current device, module CA902016**		
Rating (In)	**Curve**			**Curve**		
	B	**C**	**D**	**B**	**C**	**D**
63 A	**A9N18340**	**A9N18356**	**A9N18378**	**A9N18344**	**A9N18360**	**A9N18382**
80 A	**A9N18341**	**A9N18357**	**A9N18379**	**A9N18345**	**A9N18361**	**A9N18383**
100 A	**A9N18342**	**A9N18358**	**A9N18380**	**A9N18346**	**A9N18362**	**A9N18384**
125 A	**A9N18343**	**A9N18359**	**A9N18381**	**A9N18347**	**A9N18363**	**A9N18385**
Width in 9-mm modules	3			6		
Accessories	**Module CA907012 and CA907013**			**Module CA907012 and CA907013**		

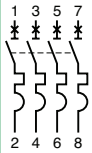
(1) Country France only

C120N circuit breakers (curves B, C, D) (cont.)

PB107917-40



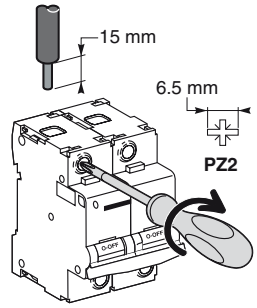
■ Longer product service life thanks to:
□ good overvoltage withstand capacity: products designed to offer a high industrial performance level (degree of pollution, rated impulse withstand voltage and insulation voltage).
□ high limitation performances (see limitation curves).
□ fast closure independent of toggle operating speed.
■ Remote indication of the open/closed/tripped state by auxiliary contacts (optional).
■ Power supply from above or below.

	3P			4P		
						
	Remote indication and tripping, module CA907008 and CA907013			**Remote indication and tripping, module CA907008 and CA907013**		
	Vigi C120 add-on residual current device, module CA902016			**Vigi C120 add-on residual current device, module CA902016**		
	Curve			**Curve**		
	B	**C**	**D**	**B**	**C**	**D**
	A9N18348	**A9N18364**	**A9N18386**	**A9N18352**	**A9N18371**	**A9N18390**
	A9N18349	**A9N18365**	**A9N18387**	**A9N18353**	**A9N18372** **A9N18373(1)**	**A9N18391**
	A9N18350	**A9N18367**	**A9N18388**	**A9N18354**	**A9N18374** **A9N18375(1)**	**A9N18392**
	A9N18351	**A9N18369**	**A9N18389**	**A9N18355**	**A9N18376** **A9N18377(1)**	**A9N18393**
	9			12		
	Module CA907012 and CA907013			**Module CA907012 and CA907013**		

C120N circuit breakers (curves B, C, D) (cont.)

Connection

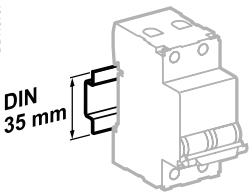
DB126143



Rating	Tightening torque	Without access. Copper cables: Rigid/ semi-rigid	Without access. Copper cables: Flexible or with ferrule	With accessories: 50 mm² Al Terminal	With accessories: Screw-on connection for ring terminal(1)	With accessories: Multi-cable terminal: Rigid cables	With accessories: Multi-cable terminal: Flexible cables
		DB122945	DB122946	Al DB122935	DB118789	DB118787	
63 to 125 A	3.5 N.m	1 to 50 mm²	1.5 to 35 mm²	16 to 50 mm²	Ø 5 mm	3 x 16 mm²	3 x 10 mm²

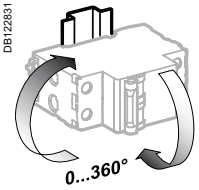
(1) For lugs up to 63 A, front or rear access.

DB118767



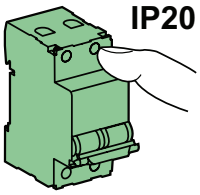
Clips onto 35 mm DIN rail.

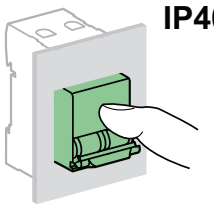
DB122831



Any installation position.

DB122932





Technical data

Main characteristics			
To IEC/EN 60947-2			
Insulation voltage (Ui)			500 V AC
Degree of pollution			3
Rated impulse withstand voltage (Uimp)			6 kV
Thermal tripping	Reference temperature		50°C
To IEC/EN 60898-1			
Magnetic tripping	Curve B		3 and 5 In
	Curve C		5 and 10 In
	Curve D		10 and 14 In
Limitation class			3
Additional characteristics			
Degree of protection (IEC 60529)	Device only		IP20
	Device in a modular enclosure		IP40
Endurance (O-C)	Electrical	63 A	10000 cycles (O-C)
		80...125 A	5000 cycles (O-C)
	Mechanical		20000 cycles
Operating temperature			-30°C to +70°C
Storage temperature			-40°C to +80°C
Tropicalisation (IEC 60068-1)			Treatment 2 (relative humidity 95 % at 55°C)

Weight (g)

Circuit breaker	
Type	**C120N**
1P	205
2P	410
3P	615
4P	820

Dimensions (mm)

DB406006