

C120N circuit breakers (curves B, C, D)

DB12430



DB12325



Country approval pictograms

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

Type	Voltage (V)				Service breaking capacity (Ics)
	12 to 130 V	220 to 240 V	380 to 415 V	440 V	
1P	12 to 130 V	220 to 240 V	380 to 415 V	440 V	75 % of Icu
Rating (In) 63 to 125 A	20 kA	10 kA	3 kA ⁽¹⁾	-	
2P/3P/4P	12 to 130 V	220 to 240 V	380 to 415 V	440 V	75 % of Icu
63 to 125 A	-	20 kA	10 kA	6 kA	

Breaking capacity (Icn) to IEC/EN 60898-1

Type	Voltage (V)	Service breaking capacity (Ics)
	230 to 400 V	
1P, 2P, 3P, 4P	230 to 400 V	75 % of Icn
Rating (In) 63 to 125 A	10000 A	

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

Direct current (DC)

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

	Voltage (Ue)					breaking capacity (Ics)
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

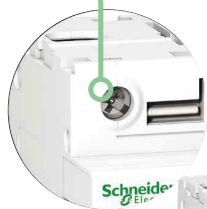
Type	1P			2P		
Auxiliaries	Remote indication and tripping, module CA907008 and CA907013			Remote indication and tripping, module CA907008 and CA907013		
Vigi C120	Vigi C120 add-on residual current device, module CA902016			Vigi C120 add-on residual current device, module CA902016		
Rating (In)	Curve			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

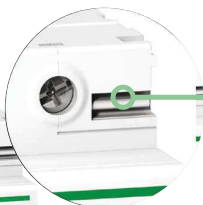
C120N circuit breakers (curves B, C, D) (cont.)

PS 07917-40

■ Terminals insulated to IP20



■ Location for 4 clip-on terminal markers



Positive contact indication

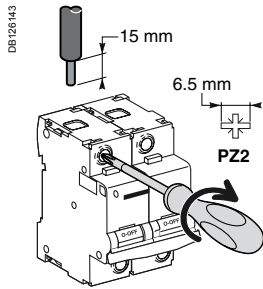
- Suitability for isolation in the industrial sector to IEC/EN 60947-2.
- The presence of the green strip guarantees that the contacts open physically and allows work to be carried out safely on the downstream circuit.

- 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	A9N18391
				A9N18373(1)	
A9N18350	A9N18367	A9N18388	A9N18354	A9N18374	A9N18392
				A9N18375(1)	
A9N18351	A9N18369	A9N18389	A9N18355	A9N18376	A9N18393
				A9N18377(1)	
9			12		
Module CA907012 and CA907013			Module CA907012 and CA907013		

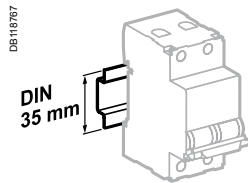
C120N circuit breakers (curves B, C, D) (cont.)

Connection

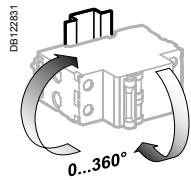


Rating	Tightening torque	Without access.		With accessories			
		Copper cables		50 mm ² Al Terminal	Screw-on connection for ring terminal ⁽¹⁾	Multi-cable terminal	
		Rigid/semi-rigid	Flexible or with ferrule			Rigid cables	Flexible cables
		DB122945	DB122946	DB122935	DB118783	DB118787	
63 to 125 A	3.5 N.m	1 to 50 mm ²	1.5 to 35 mm ²	16 to 50 mm ²	Ø 5 mm	3 x 16 mm ²	3 x 10 mm ²

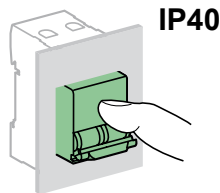
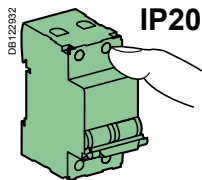
(1) For lugs up to 63 A, front or rear access.



Clips onto 35 mm DIN rail.



Any installation position.



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

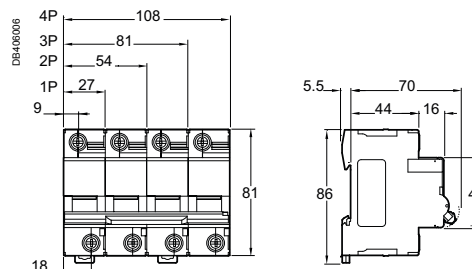
Degree of protection (IEC 60529)	Device only		IP20
	Device in a modular enclosure		IP40
Endurance (O-C)	Electrical	63 A	10000 cycles (O-C)
		80...125 A	5000 cycles (O-C)
	Mechanical	20000 cycles	
Operating temperature			-30°C to +70°C
Storage temperature			-40°C to +80°C
Tropicalisation (IEC 60068-1)			Treatment 2 (relative humidity 95 % at 55°C)

Weight (g)

Circuit breaker

Type	C120N
1P	205
2P	410
3P	615
4P	820

Dimensions (mm)



C120H circuit breakers (curves B, C, D)

DB12430



DB12325



Country approval pictograms

PB107913-30



PB107916-30



PB107919-30



PB107922-30



IEC/EN 60898-1, IEC 60947-2

C120H 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	12 to 130 V	220 to 240 V	380 to 415 V	440 V	50 % of Icu
Rating (In) 63 to 125 A	30 kA	15 kA	4,5 kA ⁽¹⁾	-	
2P, 3P, 4P	12 to 130 V	220 to 240 V	380 to 415 V	440 V	50 % of Icu
63 to 125 A	-	30 kA	15 kA	10 kA	

Breaking capacity (Icn) to IEC/EN 60898-1

Type	Voltage (V)	Service breaking capacity (Ics)
1P, 2P, 3P, 4P	230 to 400 V	
Rating (In) 63 to 125 A	15000 A	50 % 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	20 kA	15 kA	15 kA	15 kA	15 kA	100 % of Icu

Catalogue numbers

C120H 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	A9N18401	A9N18445	A9N18489	A9N18412	A9N18456	A9N18500
80 A	A9N18402	A9N18446	A9N18490	A9N18413	A9N18457	A9N18501
100 A	A9N18403	A9N18447	A9N18491	A9N18414	A9N18458	A9N18502
125 A	A9N18404	A9N18448	A9N18492	A9N18415	A9N18459	A9N18503
Width in 9 mm modules	3			6		
Accessories	Module CA907012 and CA907013			Module CA907012 and CA907013		

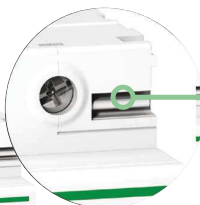
C120H circuit breakers (curves B, C, D) (cont.)

FB107916-40

■ Terminals insulated to IP20



■ Location for 4 clip-on terminal markers



Positive contact indication

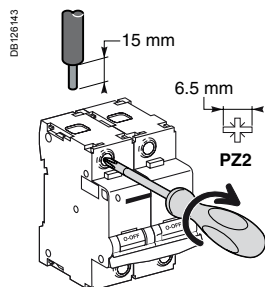
- Suitability for isolation in the industrial sector to IEC/EN 60947-2.
- The presence of the green strip guarantees that the contacts open physically and allows work to be carried out safely on the downstream circuit.

- Longer product service life thanks to:
 - good overvoltage withstand capacity: products designed to provide 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
A9N18423	A9N18467	A9N18511	A9N18434	A9N18478	A9N18522
A9N18424	A9N18468	A9N18512	A9N18435	A9N18479	A9N18523
A9N18425	A9N18469	A9N18513	A9N18436	A9N18480	A9N18524
A9N18426	A9N18470	A9N18514	A9N18437	A9N18481	A9N18525
9			12		
Module CA907012 and CA907013			Module CA907012 and CA907013		

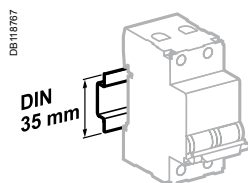
C120H circuit breakers (curves B, C, D) (cont.)

Connection

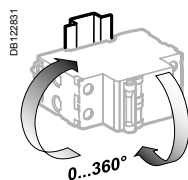


		Without access.		With accessories			
Rating	Tightening torque	Copper cables		50 mm ² Al term.	Screw-on connection for ring terminal ⁽¹⁾	Multi-cable terminal	
		Rigid	Flexible or with ferrule			Rigid cables	Flexible cables
		DB122345	DB122346	DB122335	DB118769	DB118767	
							
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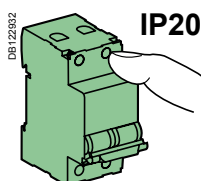
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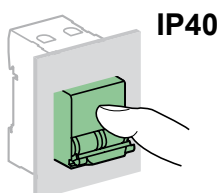
Clips onto 35 mm DIN rail.



Any installation position.



IP20



IP40

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
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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 (IPXXD)
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)

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