

Multi 9

C120N circuit-breaker



The C120N circuit-breaker is a miniature device adapted to final distribution in the industry and tertiary sectors:

- > Outgoer in medium power switchboard.
- > Enclosure supply end.

Operation

- > Protection of cables against overloads and short-circuits:
 - C curve: standard networks,
 - D curve: for circuits with a strong inrush current (motors, transformers).
- > Manual control and isolation.

Advantages

- > Compliance with standards: AS/NZS 60898.
- > Ratings from 63 to 125 A (1 to 4-pole).
- > Breaking capacity of 10 000 A.
- > Characteristics adapted to the industrial environment:
 - insulation voltage U_i : 500 V,
 - impulse voltage U_{imp} : 6 kV.
- > Service breaking capacity: $I_{cs} = 75\% I_{cu}$.
- > Positive break indication.
- > Installation on rail using bistable DIN clip.
- > Total compatibility with Prisma Plus switchboards.
- > Design, performances and range coherent with C60 circuit-breakers.
- > Remote tripping and indication by adding clip-on electrical auxiliaries, which are common with C60 circuit-breakers.
- > Earth leakage protection when combined with a Vigi C120 module.



The range

TmC120 Remote Control



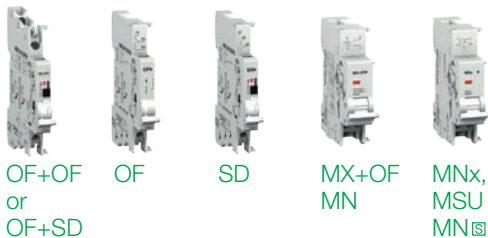
C120N Circuit-Breaker



Vigi C120 Module





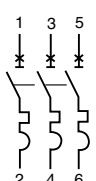
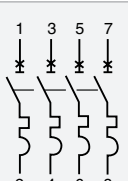
Auxiliaries



Accessories



Choice table

Type	Width in mod. of 9 mm	Rating (A)	Cat. no. curve C		D
1P 	3	63	18356	18378	
		80	18357	18379	
		100	18358	18380	
		125	18359	18381	
2P 	6	63	18360	18382	
		80	18361	18383	
		100	18362	18384	
		125	18363	18385	
3P 	9	63	18364	18386	
		80	18365	18387	
		100	18367	18388	
		125	18369	18389	
4P 	12	63	18371	18390	
		80	18372	18391	
		100	18374	18392	
		125	18376	18393	

Environment

- > Tropicalisation: treatment 2 (relative humidity 95% at 55°C).
- > Degree of protection:
 - of case: IP 40D,
 - of terminals: IP 20B.
- > Operating temperature: -30°C to +60°C.
- > Storage temperature: -40°C to +70°C.

Owing to changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us.

Implementation

- > Designed for installation in modular enclosures and cubicles.
- > Easy assembly and disassembly: on symmetrical rail with bistable lock (immediate fixing).
- > Simplified combination of circuit-breaker with auxiliaries: using clip-ons.
- > Combination of circuit-breaker with Vigi C120 module using rigid cables: quick with no risk of error (rating, order of phases, etc.).

Technical data

Common electrical data

- > Power circuit:
 - ratings from 63 to 125 A,
 - max. voltage rating: 440 V AC,
 - insulation voltage 500 V,
 - breaking capacity as in AS/NZS 60898:

Type	Voltage (V AC)	Breaking capacity (A)
1, 2, 3, 4P	230...415	10 000

- fast closing,
- positive break indication: opening is indicated by a green strip on the device's control toggle. This indicator shows that all poles are open with a safety distance allowing downstream interventions.
- > Electrical durability:
 - 10 000 cycles at $I_n \leq 63$ A,
 - 5 000 cycles at $I_n = 80...125$ A.

Tripping curves

- The magnetic trip units operate:
- > C curve: between 5 and 10 I_n .
 - > D curve: between 10 and 14 I_n .

Mechanical data

- > Connection by:
 - tunnel terminals with insulated guard (tightened using a screwdriver) for copper cable:
 - flexible from 1.5 to 35 mm²,
 - rigid from 1.5 to 50 mm²,
 - aluminium cable terminals: from 16 to 50 mm²,
 - insulated sub-distribution terminals, 3 copper cables:
 - flexible from 1.5 to 10 mm²,
 - rigid from 1.5 to 16 mm²,
 - comb busbars.
- > Durability: 20 000 cycles (O-C).
- > Dimensions (w x h x d mm): 27 x N (number of poles) x 81 x 70.
- > Weight (g): 1P: 205, 2P: 410, 3P: 615, 4P: 820.

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