

Multi 9

C120H circuit-breaker



The C120H 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,
 - B curve: for very long cables or networks supplied by low short-circuit current generators,
 - D curve: for circuits with a strong inrush current (motors, transformers).
- > Manual control and isolation.

Advantages

- > Compliance with standards: AS/NZS 60898.
- > Ratings from 10 to 125 A (1 to 4-pole).
- > Breaking capacity of 15 000 A.
- > Characteristics adapted to the industrial environment:
 - insulation voltage U_i : 500 V,
 - impulse voltage U_{imp} : 6 kV.
- > Service breaking capacity: $I_{cs} = 50\% I_{cu}$.
- > 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

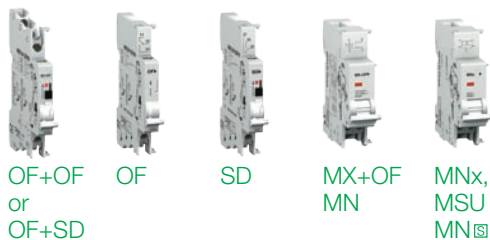
TmC120 Remote Control



C120H Circuit-Breaker





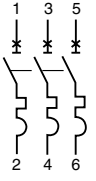
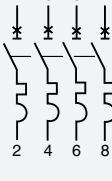
Vigi C120 Module



Accessories



Choice table

Type	Width in mod. of 9 mm	Rating (A)	Cat. no. curve				
			B	C	D		
1P 	3	10	18394	18438	18482		
		16	18395	18439	18483		
		20	18396	18440	18484		
		25	18397	18441	18485		
		32	18398	18442	18486		
		40	18399	18443	18487		
		50	18400	18444	18488		
		63	18401	18445	18489		
		80	18402	18446	18490		
		100	18403	18447	18491		
		125	18404	18448	18492		
		2P 	6	10	18405	18449	18493
				16	18406	18450	18494
20	18407			18451	18495		
25	18408			18452	18496		
32	18409			18453	18497		
40	18410			18454	18498		
50	18411			18455	18499		
63	18412			18456	18500		
80	18413			18457	18501		
100	18414			18458	18502		
125	18415			18459	18503		
3P 	9			10	18416	18460	18504
				16	18417	18461	18505
		20	18418	18462	18506		
		25	18419	18463	18507		
		32	18420	18464	18508		
		40	18421	18465	18509		
		50	18422	18466	18510		
		63	18423	18467	18511		
		80	18424	18468	18512		
		100	18425	18469	18513		
		125	18426	18470	18514		
		4P 	12	10	18427	18471	18515
				16	18428	18472	18516
20	18429			18473	18517		
25	18430			18474	18518		
32	18431			18475	18519		
40	18432			18476	18520		
50	18433			18477	18521		
63	18434			18478	18522		
80	18435			18479	18523		
100	18436			18480	18524		
125	18437			18481	18525		

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 10 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...400	15 000

- 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:

- > B curve: between 3 and 5 I_n .
- > 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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