

# C120N circuit breakers

B, C and D curves

EN 60898/EN 61009 : **10000** -

CEI 60947-2 : 10 kA

## Function

- b Protection of cables against overloads and short-circuits in final distribution
- b Manual control and isolation
- b Earth leakage protection when combined with a Vigi C120 module without temperature derating: compliance with standard: EN 61009 (refer to pages 90265/2)
- b Remote tripping, indication, by adding auxiliaries common to the entire C60/C120 range (refer to pages 90142/2).

## Description

### Technical data

- b Current rating: 63 to 125 A
- b Voltage rating  $U_e$  max.: 440 V AC
- b Insulation voltage  $U_i$ : 500 V
- b Impulse withstand voltage  $U_{imp}$ : 6 kV
- b Compliance with standard EN 60898: devices accessible by unexperienced persons
- b Breaking capacity:
- v as in EN 60898

Type	Voltage (V)	Breaking cap. $I_{cn}$ (A)
<b>1, 2, 3, 4P</b>	230...400	10000

v as in IEC 60947.2 ( $I_{cu}$ )

Type	Voltage (V)	Breaking cap. $I_{cn}$ (A)
<b>1P</b>	130	20
	230...400	10
	400...415	3 <sup>(1)</sup>
<b>2, 3, 4P</b>	230...400	20
	400...415	10
	440	6

<sup>(1)</sup> breaking capacity under 1 pole with IT isolated neutral system (case of double fault).

- b Service breaking capacity
- b  $I_{cs} = 75\% I_{cu}$
- b Positive break indication
- b Fast closing ensures simultaneous closing of poles
- b Electrical durability:
- v 63 A : 10000 cycles (O-F)
- v 80...125 A : 5000 cycles (O-F)
- b Limitation class: 3
- b Mechanical durability: 20000 cycles (O-F)
- b bistable fixing pawl: simplifies disassembly
- b weight (g):

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

- b Approval: IMQ
- b Connection:
- v flexible cables: 1.5 to 35 mm<sup>2</sup>
- v rigid cables: 1 to 50 mm<sup>2</sup>
- v terminals ensure:
  - degree of protection IP2
  - tightening of wide cross-section cables
  - pull-out withstand of cables
  - automatic guiding of cable into the correct position
- b Markers:
  - v 4 marker clips next to the upstream
  - v terminal label holder on handle (2P, 3P, 4P)
- b Degree of pollution: 3 (for use in an industrial environment)
- b Degree of protection:
  - v open or surface mounted device: IP2
  - v in a Pragma or Prisma enclosure: IP4 (IPxxD)

### B curve

- b Magnetic trip units operate between 3 and 5  $I_n$
- b Protection of very long cables
- b Protection of networks supplied by generators

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B curve

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## C curve

b Magnetic trip units operate between 5 and 10 I<sub>n</sub>

b Protection of standard networks

## D curve

b Magnetic trip units operate between 10 and 14 I<sub>n</sub>

b Protection of circuits that supply high inrush current loads: transformers, motors...

## Catalogue numbers

### B curve C120N

Type	Rating (A)	Catalogue numbers	Width in mod. of 9 mm
<b>1P</b>			
1	63	18340	3
1	80	18341	3
1	100	18342	3
1	125	18343	3



18340



18344



18349



18355

<b>2P</b>			
1 3	63	18344	6
1 3	80	18345	6
1 3	100	18346	6
1 3	125	18347	6

<b>3P</b>			
1 3 5	63	18348	9
1 3 5	80	18349	9
1 3 5	100	18350	9
1 3 5	125	18351	9

<b>4P</b>			
1 3 5 7	63	18352	12
1 3 5 7	80	18353	12
1 3 5 7	100	18354	12
1 3 5 7	125	18355	12

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C curve

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18356

## C curve C120N

Type	Rating (A)	Catalogue numbers	Width in mod. of 9 mm
<b>1P</b>			
1	63	<b>18356</b>	3
1	80	<b>18357</b>	3
1	100	<b>18358</b>	3
1	125	<b>18359</b>	3



18360

<b>2P</b>			
1 3	63	<b>18360</b>	6
1 3	80	<b>18361</b>	6
1 3	100	<b>18362</b>	6
1 3	125	<b>18363</b>	6



18365

<b>3P</b>			
1 3 5	63	<b>18364</b>	9
1 3 5	80	<b>18365</b>	9
1 3 5	100	<b>18367</b>	9
1 3 5	125	<b>18369</b>	9



18377

<b>4P</b>			
1 3 5 7	63	<b>18371</b>	12
1 3 5 7	80	<b>18372</b>	12
1 3 5 7	100	<b>18374</b>	12
1 3 5 7	125	<b>18376</b>	12

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D curve

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18378



18385



18389



18393

## D curve C120N

Type	Rating (A)	Catalogue numbers	Width in mod. of 9 mm
<b>1P</b>			
1	63	18378	3
1	80	18379	3
1	100	18380	3
1	125	18381	3

2

## 2P

1 3	63	18382	6
1 3	80	18383	6
1 3	100	18384	6
1 3	125	18385	6

2 4

## 3P

1 3 5	63	18386	9
1 3 5	80	18387	9
1 3 5	100	18388	9
1 3 5	125	18389	9

2 4 6

## 4P

1 3 5 7	63	18390	12
1 3 5 7	80	18391	12
1 3 5 7	100	18392	12
1 3 5 7	125	18393	12

2 4 6 8

## Additional information

Auxiliaries: page 92142/2  
 Accessories: page 91903/2  
 Vigi module: page 90265/2  
 Discrimination table: page 92511/2  
 Dimensions: page 90148/2  
 Derating: page 92515/2  
 Tripping curves: page 90180/2