

# C120N circuit breakers

B, C and D curves

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

IEC 60947-2: 10 kA

## Function

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

## Description

### Technical data

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

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

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).

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

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

- Approval: IMQ
- Connection:
  - flexible cables: 1.5 to 35 mm<sup>2</sup>
  - rigid cables: 1 to 50 mm<sup>2</sup>
  - 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
- Markers:
  - 4 marker clips next to the upstream
  - terminal label holder on handle (2P, 3P, 4P)
- Degree of pollution: 3 (for use in an industrial environment)
- Degree of protection:
  - open or surface mounted device: IP2
  - in a Pragma or Prisma enclosure: IP4 (IPxxD)

### B curve

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

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## C curve

- Magnetic trip units operate between 5 and 10 I<sub>n</sub>
- Protection of standard networks

## D curve

- Magnetic trip units operate between 10 and 14 I<sub>n</sub>
- 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	<b>18340</b>	3
1 1/2	80	<b>18341</b>	3
1 1/2	100	<b>18342</b>	3
2	125	<b>18343</b>	3



18340



18344



18349



18355

<b>2P</b>			
1 3	63	<b>18344</b>	6
1 3	80	<b>18345</b>	6
1 3	100	<b>18346</b>	6
2 4	125	<b>18347</b>	6

<b>3P</b>			
1 3 5	63	<b>18348</b>	9
1 3 5	80	<b>18349</b>	9
1 3 5	100	<b>18350</b>	9
2 4 6	125	<b>18351</b>	9

<b>4P</b>			
1 3 5 7	63	<b>18352</b>	12
1 3 5 7	80	<b>18353</b>	12
1 3 5 7	100	<b>18354</b>	12
2 4 6 8	125	<b>18355</b>	12

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C curve

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056798N\_SE-32

18356



056798N\_SE-32

18360



056800N\_SE-32

18365



056801N\_SE-32

18376

## 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



<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



<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



<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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066802N\_LS-E-32

18378



066739N\_SE-32

18385



066739\_SE-32

18389



066804N\_SE-32

18393

## D curve C120N

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

<b>2P</b>			
1 3	63	<b>18382</b>	6
1 3	80	<b>18383</b>	6
1 3	100	<b>18384</b>	6
1 3	125	<b>18385</b>	6

<b>3P</b>			
1 3 5	63	<b>18386</b>	9
1 3 5	80	<b>18387</b>	9
1 3 5	100	<b>18388</b>	9
1 3 5	125	<b>18389</b>	9

<b>4P</b>			
1 3 5 7	63	<b>18390</b>	12
1 3 5 7	80	<b>18391</b>	12
1 3 5 7	100	<b>18392</b>	12
1 3 5 7	125	<b>18393</b>	12

## 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