

C120H circuit breakers

B, C and D curves

EN 60898/EN 61009 : **15000** -

IEC 60947-2 : 15 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: 10 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)
1, 2, 3, 4P		
	230...400	15000

□ as in IEC 60947.2 (I_{cu})

Type	Voltage (V)	Breaking cap. I_{cn} (A)
1P		
	130	30
	230...240	15
	400...415	4,5 ⁽¹⁾
2, 3, 4P		
	230...240	30
	400...415	15
	440	10

⁽¹⁾ 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-F)
 - 80...125 A : 5000 cycles (O-F)
- Limitation class: 3
- Mechanical durability: 20000 cycles (O-F)
- bistable fixing pawl: simplifies disassembly
- weight (g):

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

- Approval: IMQ
- Connection:
 - flexible cables: 1.5 to 35 mm²
 - rigid cables: 1 to 50 mm²
 - 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 I_n
- 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_n
- Protection of standard networks

D curve

- Magnetic trip units operate between 10 and 14 I_n
- Protection of circuits that supply high inrush current loads: transformers, motors...

Catalogue numbers

B curve C120H

Type	Rating (A)	Catalogue numbers	Width in mod. of 9 mm
1P			
	10	18394	3
	16	18395	3
	20	18396	3
	25	18397	3
	32	18398	3
	40	18399	3
	50	18400	3
	63	18401	3
	80	18402	3
	100	18403	3
	125	18404	3



18394



18412



18424



18437

2P			
	10	18405	6
	16	18406	6
	20	18407	6
	25	18408	6
	32	18409	6
	40	18410	6
	50	18411	6
	63	18412	6
	80	18413	6
	100	18414	6
	125	18415	6

3P			
	10	18416	9
	16	18417	9
	20	18418	9
	25	18419	9
	32	18420	9
	40	18421	9
	50	18422	9
	63	18423	9
	80	18424	9
	100	18425	9
	125	18426	9

4P			
	10	18427	12
	16	18428	12
	20	18429	12
	25	18430	12
	32	18431	12
	40	18432	12
	50	18433	12
	63	18434	12
	80	18435	12
	100	18436	12
	125	18437	12

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18448



18459



18470



18481

C curve C120H

Type	Rating (A)	Catalogue numbers	Width in mod. of 9 mm
1P			
	10	18438	3
	16	18439	3
	20	18440	3
	25	18441	3
	32	18442	3
	40	18443	3
	50	18444	3
	63	18445	3
	80	18446	3
	100	18447	3
	125	18448	3

2P			
	10	18449	6
	16	18450	6
	20	18451	6
	25	18452	6
	32	18453	6
	40	18454	6
	50	18455	6
	63	18456	6
	80	18457	6
	100	18458	6
	125	18459	6

3P			
	10	18460	9
	16	18461	9
	20	18462	9
	25	18463	9
	32	18464	9
	40	18465	9
	50	18466	9
	63	18467	9
	80	18468	9
	100	18469	9
	125	18470	9

4P			
	10	18471	12
	16	18472	12
	20	18473	12
	25	18474	12
	32	18475	12
	40	18476	12
	50	18477	12
	63	18478	12
	80	18479	12
	100	18480	12
	125	18481	12

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18492



18503



18514



18525

D curve C120H

Type	Rating (A)	Catalogue numbers	Width in mod. of 9 mm
1P			
1	10	18482	3
1	16	18483	3
1	20	18484	3
1	25	18485	3
1	32	18486	3
1	40	18487	3
1	50	18488	3
1	63	18489	3
1	80	18490	3
1	100	18491	3
1	125	18492	3

2P			
1 3	10	18493	6
1 3	16	18494	6
1 3	20	18495	6
1 3	25	18496	6
1 3	32	18497	6
1 3	40	18498	6
1 3	50	18499	6
1 3	63	18500	6
1 3	80	18501	6
1 3	100	18502	6
1 3	125	18503	6

3P			
1 3 5	10	18504	9
1 3 5	16	18505	9
1 3 5	20	18506	9
1 3 5	25	18507	9
1 3 5	32	18508	9
1 3 5	40	18509	9
1 3 5	50	18510	9
1 3 5	63	18511	9
1 3 5	80	18512	9
1 3 5	100	18513	9
1 3 5	125	18514	9

4P			
1 3 5 7	10	18515	12
1 3 5 7	16	18516	12
1 3 5 7	20	18517	12
1 3 5 7	25	18518	12
1 3 5 7	32	18519	12
1 3 5 7	40	18520	12
1 3 5 7	50	18521	12
1 3 5 7	63	18522	12
1 3 5 7	80	18523	12
1 3 5 7	100	18524	12
1 3 5 7	125	18525	12

Additional informations

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