

C60N circuit breakers

B, C and D curves

IEC 60898: 6000 A, IEC 60947-2: 10 kA



24409



24591



24094



24027



24631

Function

- The circuit-breakers combine the following functions:
 - protection of circuits against short-circuit currents
 - protection of circuits against overload currents
 - control
 - isolation
 - protection of persons against indirect contact with TN and IT neutral systems.
- C60N circuit breakers are used in the tertiary and industrial sectors.

Tripping curves

B curve

When the short-circuit currents are weak (generators, long cables).

- Power circuit:
 - ratings: 1 to 63 A set at 30 °C
 - tripping curve: the magnetic trip units operate between 3 and 5 In.

C curve

Cables feeding conventional loads.

- Power circuit:
 - ratings: 0.5 to 63 A set at 30 °C
 - tripping curve: the magnetic trip units operate between 5 and 10 In.

D curve

Loads with high inrush currents (motors, transformers).

- Power circuit:
 - ratings: 0.5 to 63 A set at 40 °C
 - tripping curve: the magnetic trip units operate between 10 and 14 In.

Technical data according to IEC 60898

- Power circuit:
 - voltage rating (Ue): 440 V AC
 - breaking capacity:
 - according to IEC 60898, Icn ultimate breaking capacity (O-CO cycle):

Rating (A)	Type	Voltage (V)	Breaking capacity Icn (A)
0.5...63	1P	230/400	6000
	2P, 3P, 3P+N, 4P	400	6000

- limitation class (IEC 60898): 3.

Technical data according to IEC 60947-2

- Power circuit:
 - voltage rating (Ue): 440 V AC
 - impulse voltage (Uimp): 6 kV
 - insulation voltage (Ui): 500 V AC
 - breaking capacity:
 - according to IEC 60947-2, Icu ultimate breaking capacity (O-CO cycle):

Rating (A)	Type	Voltage (V)	Breaking capacity Icu (kA)
0.5...63	1P	230...240	10
		400...415	3 ⁽¹⁾
	2P, 3P, 3P+N, 4P	230...240	20
		400...415	10

(1) Breaking capacity under 1 pole with IT isolated neutral system (case of double fault).

Generals technical data

- Fast closing: allows the high inrush currents of some loads to be better held.
- Isolation with positive break indication: opening is indicated by a green strip on the device operating handle. This indicator shows opening contacts of all the poles.
- Number of cycles (O-C): 20000.
- Environment:

- tropicalisation: treatment 2 (relative humidity: 95 % at 55 °C) according to IEC 60068-1
- weight (g):

Type	1P	2P	3P	4P
	120	240	360	480

- Connection: tunnel terminals for the following cables:
 - 16 mm² flexible or 25 mm² rigid up to 25 A ratings
 - 25 mm² flexible or 35 mm² rigid for 32 to 63 A ratings.

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Catalogue numbers

Type	Rating (A)	Width in mod. of 9 mm	Quantity per batch	Catalogue number	
				B curve	C curve
1P					
	0.5	2	12	-	24067
	1	2	12	24045	24395
	2	2	12	24046	24396
	3	2	12	24047	24397
	4	2	12	24048	24398
	6	2	12	24049	24399
	10	2	12	24050	24401
	16	2	12	24051	24403
	20	2	12	24052	24404
	25	2	12	24053	24405
	32	2	12	24054	24406
	40	2	12	24055	24407
	50	2	12	24056	24408
	63	2	12	24057	24409
2P					
	0.5	4	6	-	24068
	1	4	6	24071	24331
	2	4	6	24072	24332
	3	4	6	24073	24333
	4	4	6	24074	24334
	6	4	6	24075	24335
	10	4	6	24076	24336
	16	4	6	24077	24337
	20	4	6	24078	24338
	25	4	6	24079	24339
	32	4	6	24080	24340
	40	4	6	24081	24341
	50	4	6	24082	24342
	63	4	6	24083	24343
3P					
	0.5	6	4	-	24069
	1	6	4	24084	24344
	2	6	4	24085	24345
	3	6	4	24086	24346
	4	6	4	24087	24347
	6	6	4	24088	24348
	10	6	4	24089	24349
	16	6	4	24090	24350
	20	6	4	24091	24351
	25	6	4	24092	24352
	32	6	4	24093	24353
	40	6	4	24094	24354
	50	6	4	24095	24355
	63	6	4	24096	24356
3P + N					
	4	8	3	24383	-
	6	8	3	24384	-
	10	8	3	24386	-
	13	8	3	24387	-
	15	8	3	24415	-
	16	8	3	24388	-
	20	8	3	24389	-
	25	8	3	24390	-
	32	8	3	24391	-
	40	8	3	24392	-
	50	8	3	24393	-
	63	8	3	24394	-
4P					
	0.5	8	3	-	24070
	1	8	3	24097	24357
	2	8	3	24098	24358
	3	8	3	24099	24359
	4	8	3	24100	24360
	6	8	3	24101	24361
	10	8	3	24102	24362
	16	8	3	24103	24363
	20	8	3	24104	24364
	25	8	3	24105	24365
	32	8	3	24106	24366
	40	8	3	24107	24367
	50	8	3	24108	24368
	63	8	3	24109	24369

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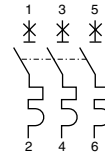
Connection



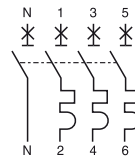
1P



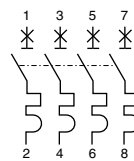
2P



3P



3P + N



4P

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D curve

IEC 60947-2: 10 kA

Catalogue numbers

Type	Rating (A)	Width in mod. of 9 mm	Quantity per batch	Catalogue number D curve
1P				
	0.5	2	12	24493
	1	2	12	24565
	2	2	12	24566
	3	2	12	24567
	4	2	12	24568
	6	2	12	24569
	10	2	12	24571
	16	2	12	24572
	20	2	12	24573
	25	2	12	24574
	32	2	12	24575
	40	2	12	24576
	50	2	12	24578
	63	2	12	24579
2P				
	0.5	4	6	24494
	1	4	6	24580
	2	4	6	24581
	3	4	6	24582
	4	4	6	24583
	6	4	6	24584
	10	4	6	24586
	16	4	6	24587
	20	4	6	24588
	25	4	6	24589
	32	4	6	24590
	40	4	6	24591
	50	4	6	24593
	63	4	6	24594
3P				
	0.5	6	4	24495
	1	6	4	24595
	2	6	4	24596
	3	6	4	24597
	4	6	4	24598
	6	6	4	24599
	10	6	4	24601
	16	6	4	24602
	20	6	4	24603
	25	6	4	24604
	32	6	4	24605
	40	6	4	24606
	50	6	4	24608
	63	6	4	24609
4P				
	0.5	8	3	24496
	1	8	3	24610
	2	8	3	24611
	3	8	3	24612
	4	8	3	24613
	6	8	3	24614
	10	8	3	24616
	16	8	3	24617
	20	8	3	24618
	25	8	3	24619
	32	8	3	24620
	40	8	3	24621
	50	8	3	24623
	63	8	3	24624

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D curve

IEC 60947-2: 10 kA

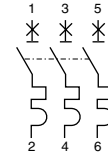
Connection



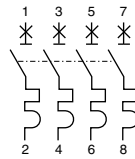
1P



2P



3P



4P

Additional information

Vigi modules: page 90116
Electrical auxiliaries: page 90142
Accessories: page 91903
Dimensions: page 90148
Curves: page 90180