

# C60H circuit breakers

B, C and D curves

IEC 60898: 10000 A, IEC 60947-2: 15 kA



25159



25102



24729



25002



24756

## 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.
- C60H 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: 6 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	10000
	1P+N	230	10000
	2P, 3P, 4P	400	10000

- 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	130	30
		230...240	15
		400...415	4 <sup>(1)</sup>
	1P+N, 2P, 3P, 4P	230...240	30
		400...415	15
		440	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 mm<sup>2</sup> flexible or 25 mm<sup>2</sup> rigid up to 25 A ratings
  - 25 mm<sup>2</sup> flexible or 35 mm<sup>2</sup> rigid for 32 to 63 A ratings.

# C60H circuit breakers

B, C and D curves

IEC 60898: 10000 A, IEC 60947-2: 15 kA

## Catalogue numbers

Type	Rating (A)	Width in mod. of 9 mm	Quantity per batch	Catalogue number		
				B curve	C curve	D curve
1P						
	0.5	2	12	-	24900	25171
	0.75	2	12	-	24901	-
	1	2	12	-	24955	25152
	2	2	12	-	24956	25155
	3	2	12	-	24957	25157
	4	2	12	-	24958	25158
	6	2	12	24699	24959	25159
	10	2	12	24700	24960	26160
	13	2	12	24695	24891	-
	16	2	12	24701	24961	25161
	20	2	12	24702	24962	25164
	25	2	12	24703	24963	25165
	32	2	12	24704	24964	25166
	40	2	12	24705	24965	25167
	50	2	12	24706	24966	25168
	63	2	12	24707	24967	25169
1P + N						
	1	4	6	-	25094	-
	2	4	6	-	25095	-
	3	4	6	-	25096	-
	4	4	6	-	25097	-
	6	4	6	24712	25098	-
	10	4	6	24713	25099	-
	13	4	6	24708	25100	-
	16	4	6	24714	25101	-
	20	4	6	24715	25102	-
	25	4	6	24716	25103	-
	32	4	6	24717	25104	-
	40	4	6	24718	25105	-
	50	4	6	24719	25106	-
	63	4	6	24720	25107	-
2P						
	0.5	4	6	-	24902	25172
	0.75	4	6	-	24903	-
	1	4	6	-	24981	25183
	2	4	6	-	24982	25184
	3	4	6	-	24983	25185
	4	4	6	-	24984	25186
	6	4	6	24725	24985	25187
	10	4	6	24726	24986	25188
	13	4	6	24721	24919	-
	16	4	6	24727	24987	25189
	20	4	6	24728	24988	25190
	25	4	6	24729	24989	25191
	32	4	6	24730	24990	25192
	40	4	6	24731	24991	25193
	50	4	6	24732	24992	25194
	63	4	6	24733	24993	25195
3P						
	0.5	6	4	-	24906	25173
	0.75	6	4	-	24907	-
	1	6	4	-	24994	25196
	2	6	4	-	24995	25197
	3	6	4	-	24996	25198
	4	6	4	-	24997	25199
	6	6	4	24738	24998	25200
	10	6	4	24739	24999	25201
	13	6	4	24734	24933	-
	16	6	4	24740	25000	25202
	20	6	4	24741	25001	25203
	25	6	4	24742	25002	25205
	32	6	4	24743	25003	25207
	40	6	4	24744	25004	25208
	50	6	4	24745	25005	25209
	63	6	4	24746	25006	25210

# C60H circuit breakers

B, C and D curves

IEC 60898: 10000 A, IEC 60947-2: 15 kA

## Catalogue numbers

Type	Rating (A)	Width in mod. of 9 mm	Quantity per batch	Catalogue number		
				B curve	C curve	D curve
4P	0.5	8	3	-	24908	25174
	0.75	8	3	-	24909	-
	1	8	3	-	25007	25211
	2	8	3	-	25008	25212
	3	8	3	-	25009	25213
	4	8	3	-	25010	25214
	6	8	3	24751	25011	25215
	10	8	3	24752	25012	25216
	13	8	3	24747	24947	-
	16	8	3	24753	25013	25217
	20	8	3	24754	25014	25218
	25	8	3	24755	25015	25219
	32	8	3	24756	25016	25220
	40	8	3	24757	25017	25221
	50	8	3	24758	25018	25222
	63	8	3	24759	25019	25223

## Connection



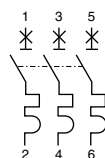
1P



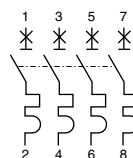
1P + N



2P



3P



4P

## Additional information

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