

C60H circuit breakers B, C and D curves BS EN 60898: 1000A, BS EN 60947-2: 15kA



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: 1 to 63 A set at 30 °C
 - Tripping curve: the magnetic trip units operate between 3 and 5 I_n

C curve

Cables feeding conventional loads

- Power circuit:
 - Ratings: 1 to 63 A set at 30 °C
 - Tripping curve: the magnetic trip units operate between 5 and 10 I_n

D curve

Loads with high inrush currents (motors, transformers)

- Power circuit:
 - Ratings: 1 to 63 A set at 40 °C
 - Tripping curve: the magnetic trip units operate between 10 and 14 I_n

Technical data according to BS EN 60898

- Power circuit:
 - Voltage rating (U_e): 440 V AC
 - Breaking capacity:
 - According to BS EN 60898, I_{cn} ultimate breaking capacity (O-CO cycle):

Rating (A)	Type	Voltage (V)	Breaking capacity I _{cn} (A)
1...63	1P	230/400	10000
	1P+N	230	10000
	2P, 3P, 4P	400	10000

- limitation class (BS EN 60898): 3.

Technical data according to BS EN 60947-2

- Power circuit:
 - Voltage rating (U_e): 440 V AC
 - Impulse voltage (U_{imp}): 6 kV
 - Insulation voltage (U_i): 500 V AC
 - Breaking capacity:
 - According to BS EN 60947-2, I_{cu} ultimate breaking capacity (O-CO cycle):

Rating (A)	Type	Voltage (V)	Breaking capacity I _{cu} (kA)
1...63	1P	130	30
		230...240	15
		400...415	4 ⁽¹⁾
	1P+N, 2P, 3P, 4P	230...240	30
		400...415	15
		440	10

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

General 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