

ELMARK[®]

The Brand of Electricity

MINIATURE CIRCUIT BREAKERS (MCB) C40N



Functions:

- Protection of the electrical circuits from overload or short circuits of the outer circuit
- It can be used as a device for commutation and control of electrical circuits
- In combination with auxiliary devices it allows remote control, commutation or indication of the protected circuit
- For mounting in residential and industrial buildings
- For mounting at a distance from the transformer post from 150 to 850 m
- Allows protection of consumers generating short circuit currents up to 4500 A

Technical data:

- Rated voltage: 230/400V; 50/60Hz
- Breaking capacity (cycle O-CO) in accordance with standard EN 60 898-1: 4500A
- Rated breaking capacity $I_{cs} = 75\% I_{cu}$
- Isolating voltage: $\geq 2000V$
- Electrical wear resistance (number of cycles): 4000
- Mechanical (number of cycles): 20000
- Class of current limiting: 3
- IP code: IP>20
- Tripping: C – the maximum current release breaks between 5 and 10 In; used to protect main power supply cables and conventional consumers
- Joining terminal: flat (tunnel) screw terminal with composition 1.5 coldly draw-plated plane Q235– A
- Plastic box – not keeping the burning material nylon PA66, UV rays wear resistance
- Box permittivity strength: $>18MV/m$
- Abnormal heating wear resistance and fire of the outer parts: 960°C / 3s
- Maximum current release containing:
 - copper coil - composition: pure copper T2 type
 - resistance: from 0.6 to 180m
 - welding effort: $<150\ 000\ N/mm$
 - bimetal plate – composition: 5J158 to TB180 depending on the current
 - thickness: 0.6mm (up to 40A) and 0.8mm (up to 63A)
 - magnetic core – composition: coldly draw-plated metal wire (1Gr18Ni9)
 - thickness: 1.15 to 2.24 μm
 - drawing effort: from 200 to 400N/mm
 - contact head of the movable contact – composition: silver graphite CAg(5)
 - static contact – composition: pure copper T2Y2

TECHNICAL SPECIFICATION

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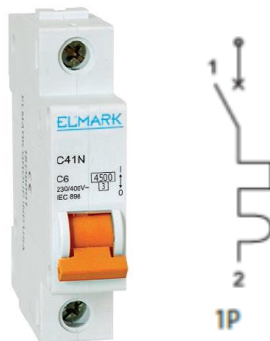
INSTALLATION- HAND TOOLS

- composition of the contact head: silver graphite CAg(5)
- Power supply (conducting)
 - power supply busbar 1P63, 3P63
 - rigid conductors up to 25 mm
 - flexible conductors up to 16 mm
- Tightening moment:1.33Nm

Mounting:

- Vertical
- Din-rail
- For mounting in housing or industrial environment without serious interference
- Ambient temperature -5°C to +65°C ±2°C

Variants:



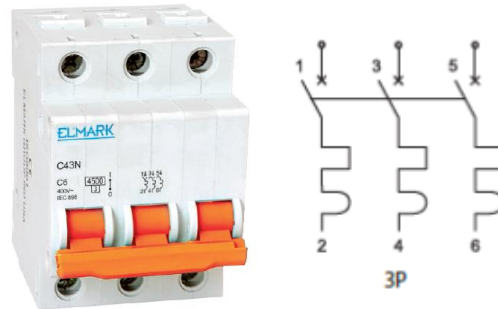
Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm ²)	Packing/Box (pcs)	Catalogue number Curve C
C41N/6A	1P	6	4.5	1.0	12/240	71106
C41N/10A	1P	10	4.5	1.5	12/240	71110
C41N/16A	1P	16	4.5	2.5	12/240	71116
C41N/20A	1P	20	4.5	2.5	12/240	71120
C41N/25A	1P	25	4.5	4.0	12/240	71125
C41N/32A	1P	32	4.5	6.0	12/240	71332
C41N/40A	1P	40	4.5	10.0	12/240	71140
C41N/50A	1P	50	4.5	10.0	12/240	71150

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Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm ²)	Packing/Box (pcs)	Catalogue number Curve C
C43N/6A	3P	6	4.5	1.0	1/4	71306
C43N/10A	3P	10	4.5	1.5	1/4	71310
C43N/16A	3P	16	4.5	2.5	1/4	71316
C43N/20A	3P	20	4.5	2.5	1/4	71320
C43N/25A	3P	25	4.5	4.0	1/4	71325
C43N/32A	3P	32	4.5	6.0	1/4	71332

Standards:

- EN 60898-1:2003/A1:2004
- EN 60898-1:2003/A11:2005
- EN 60898-1:2003/A13:2012

