

ELMARK[®]

The Brand of Electricity

NEW 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 I_n ; 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 2.24μm
 - drawing effort: from 200 to 400N/mm
 - contact head of the movable contact – composition: silver graphite CAg(5)

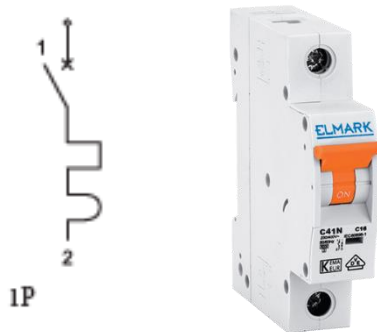
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- dimension 3x3x0.8 (up to 40A) and 4x4x0.8 (up to 63A)
- static contact – composition: pure copper T2Y2
- composition of the contact head: silver graphite CAg(5)
- Power supply (conducting)
 - power supply busbar 1P63, 2P63, 3P63
 - rigid conductors 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 conductor (mm ²)	Catalogue number
C41N/2A	1P	2	4.5	1.0	41660C
C41N/4A	1P	4	4.5	1.0	41661C
C41N/6A	1P	6	4.5	1.0	41651C
C41N/10A	1P	10	4.5	1.5	41652C
C41N/16A	1P	16	4.5	2.5	41653C
C41N/20A	1P	20	4.5	2.5	41654C
C41N/25A	1P	25	4.5	4.0	41655C
C41N/32A	1P	32	4.5	6.0	41656C
C41N/40A	1P	40	4.5	10.0	41657C
C41N/50A	1P	50	4.5	10.0	41658C
C41N/63A	1P	63	4.5	10.0	41659C

TECHNICAL SPECIFICATION

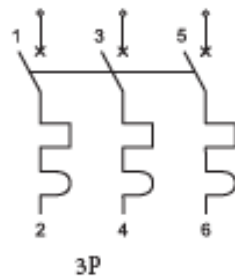
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Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended conductor (mm ²)	Catalogue number
C42N/6A	2P	6	4.5	1.0	41670C
C42N/10A	2P	10	4.5	1.5	41671C
C42N/16A	2P	16	4.5	2.5	41672C
C42N/20A	2P	20	4.5	2.5	41673C
C42N/25A	2P	25	4.5	4.0	41674C
C42N/32A	2P	32	4.5	6.0	41675C
C42N/40A	2P	40	4.5	10.0	41676C
C42N/50A	2P	50	4.5	10.0	41677C
C42N/63A	2P	63	4.5	10.0	41678C

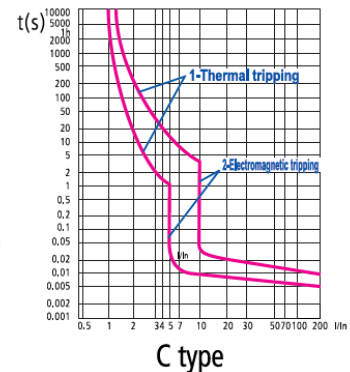
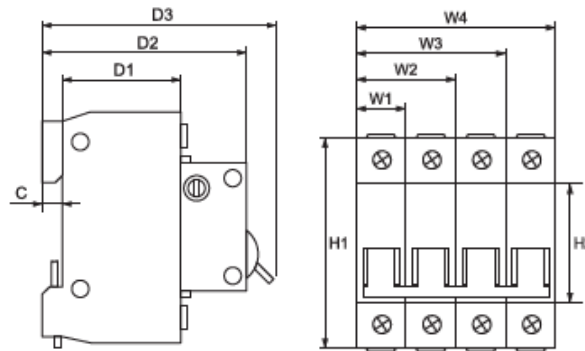


Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended conductor (mm ²)	Catalogue number
C43N/6A	3P	6	4.5	1.0	41641C
C43N/10A	3P	10	4.5	1.5	41642C
C43N/16A	3P	16	4.5	2.5	41643C
C43N/20A	3P	20	4.5	2.5	41644C
C43N/25A	3P	25	4.5	4.0	41645C
C43N/32A	3P	32	4.5	6.0	41646C
C43N/40A	3P	40	4.5	10.0	41647C
C43N/50A	3P	50	4.5	10.0	41648C
C43N/63A	3P	63	4.5	10.0	41649C

Dimencions:

Dimensions (mm)

C	D1	D2	D3	H1
5	40	65	72	78
H2	W1	W2	W3	W4
45	18	36	54	72



Additional information:

Documents corresponding to the product:

Standard:

- EN60898-1
- EN60947-2

Catalogue number	Barcodes	Packing/Box (pcs)
41660C	3800131236043	12/240
41661C	3800131236050	12/240
41651C	3800131236067	12/240
41652C	3800131236074	12/240
41653C	3800131236081	12/240
41654C	3800131236098	12/240
41655C	3800131236104	12/240
41656C	3800131236111	12/240
41657C	3800131236128	12/240
41658C	3800131236135	12/240
41659C	3800131236142	12/240
41670C	3800131237514	6/120
41671C	3800131237521	6/120
41672C	3800131237538	6/120
41673C	3800131237545	6/120
41674C	3800131237552	6/120
41675C	3800131237569	6/120
41676C	3800131237576	6/120
41677C	3800131237583	6/120
41678C	3800131237590	6/120
41641C	3800131236159	4/80
41642C	3800131236166	4/80
41643C	3800131236173	4/80
41644C	3800131236180	4/80
41645C	3800131236197	4/80
41646C	3800131236203	4/80
41647C	3800131236210	4/80
41648C	3800131236227	4/80
41649C	3800131236234	4/80

