

Miniature circuit breakers (MCB)

C4xN

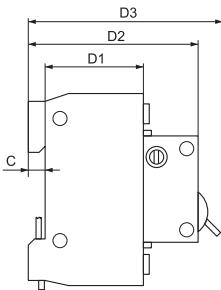
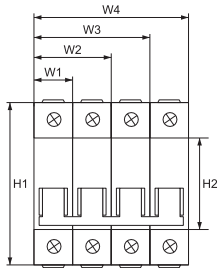
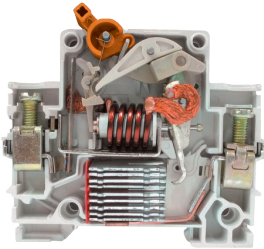
— number of poles (1,2,3)
 — breaking capacity in (kA)
 — tripping curve C

C x

— rated current in (A)
 — tripping curve C

Documents corresponding to the product:

Standard EN60898-1
 EN60947-2



Dimensions (mm)

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

Miniature circuit breakers (MCB) C40N

7 YEAR WARRANTY *for industrial usage, 3 years warranty

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

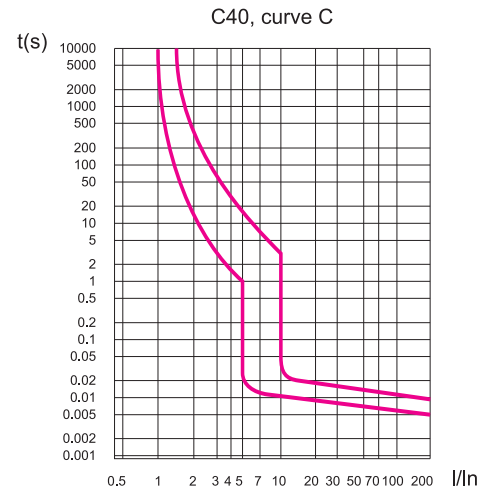
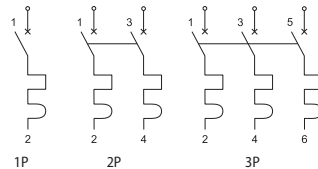
Technical data:

- 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: ≥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)
- 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





Type	Number of poles	Rated current I _n (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm ²)	Packing/Box (pcs)	Catalogue number Curve C
C41N / 2A	1P	2	4.5	1.0	12 / 240	41460C
C41N / 4A	1P	4	4.5	1.0	12 / 240	41461C
C41N / 6A	1P	6	4.5	1.0	12 / 240	41451C
C41N / 10A	1P	10	4.5	1.5	12 / 240	41452C
C41N / 16A	1P	16	4.5	2.5	12 / 240	41453C
C41N / 20A	1P	20	4.5	2.5	12 / 240	41454C
C41N / 25A	1P	25	4.5	4.0	12 / 240	41455C
C41N / 32A	1P	32	4.5	6.0	12 / 240	41456C
C41N / 40A	1P	40	4.5	10.0	12 / 240	41457C
C41N / 50A	1P	50	4.5	10.0	12 / 240	41458C
C41N / 63A	1P	63	4.5	16.0	12 / 240	41459C



Type	Number of poles	Rated current I _n (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm ²)	Packing/Box (pcs)	Catalogue number Curve C
C42N / 6A	2P	6	4.5	1.0	6 / 120	41470C
C42N / 10A	2P	10	4.5	1.5	6 / 120	41471C
C42N / 16A	2P	16	4.5	2.5	6 / 120	41472C
C42N / 20A	2P	20	4.5	2.5	6 / 120	41473C
C42N / 25A	2P	25	4.5	4.0	6 / 120	41474C
C42N / 32A	2P	32	4.5	6.0	6 / 120	41475C
C42N / 40A	2P	40	4.5	10.0	6 / 120	41476C
C42N / 50A	2P	50	4.5	10.0	6 / 120	41477C
C42N / 63A	2P	63	4.5	16.0	6 / 120	41478C



Type	Number of poles	Rated current I _n (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	4 / 80	41541C
C43N / 10A	3P	10	4.5	1.5	4 / 80	41542C
C43N / 16A	3P	16	4.5	2.5	4 / 80	41543C
C43N / 20A	3P	20	4.5	2.5	4 / 80	41544C
C43N / 25A	3P	25	4.5	4.0	4 / 80	41545C
C43N / 32A	3P	32	4.5	6.0	4 / 80	41546C
C43N / 40A	3P	40	4.5	10.0	4 / 80	41547C
C43N / 50A	3P	50	4.5	10.0	4 / 80	41548C
C43N / 63A	3P	63	4.5	16.0	4 / 80	41549C