MINIATURE CIRCUIT BREAKERS (MCB)

C40N

Functions:

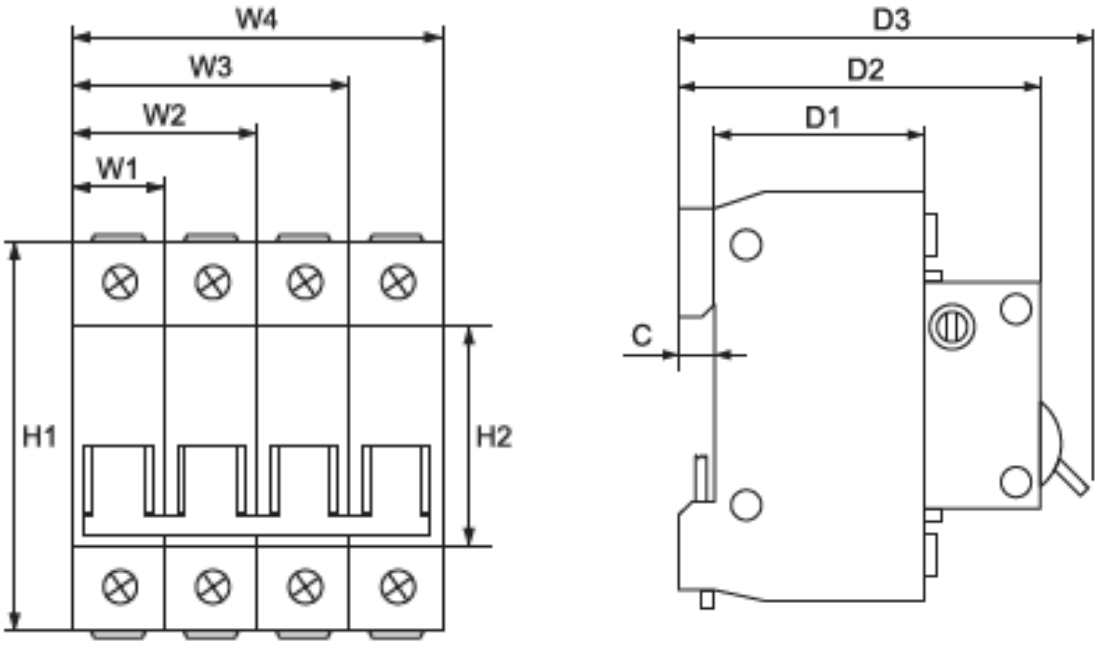
- protection of the electrical circuits from overload or short circuits of the outer circuit
- it can be used as a device for commutation and control of electrical circuits
- in combination with auxiliary devices it allows remote control, commutation or indication of the protected circuit
- for mounting 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 current up to 4500A

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:	Ics= 75% Icu
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 10In; 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
Tightening moment:	1.33Nm
Power supply (conducting):	Power supply busbar 1P63A, 2P63A, 3P63A
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)
	drawing effort: from 200 to 400N/mm
	contact head of the moveable contact – composition silver graphite Cag (5)

Mounting:

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

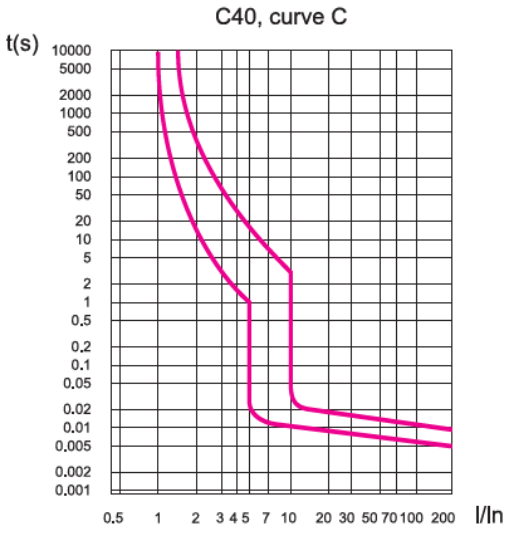
Dimensions:

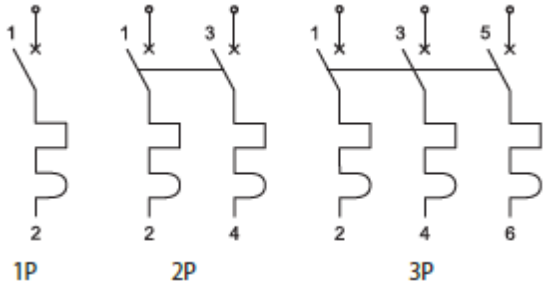


Dimensions (mm)

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

Schemes:





Basic data:

- **MCB C41N**

Type	Number of poles	Rated current In(A)	Breaking capacity (kA)	Recommended section of the conductor (g/mm)	Packing/ Box (pcs)	Catalog 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

- **MCB C42N**

Type	Number of poles	Rated current In(A)	Breaking capacity (kA)	Recommended section of the conductor (g/mm)	Packing/ Box (pcs)	Catalog 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

- **MCB C43N**

Type	Number of poles	Rated current In(A)	Breaking capacity (kA)	Recommended section of the conductor (g/mm)	Packing/ Box (pcs)	Catalog 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

Standards:

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