

ELMARK[®]

The Brand of Electricity

NEW MINIATURE CIRCUIT BREAKERS (MCB) C60N



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 industrial buildings with high contamination level of the electric systems
- For mounting at a distance from the transformer post from 150 to 850 m
- Allows protection of consumers generating short circuit currents up to 6000 A

Technical data:

- Rated voltage: 230/400V; 50/60Hz
- Breaking capacity (cycle O-CO) in accordance with standard EN 60 898-1: 6000A
- Rated breaking capacity $I_{cs} = 75\% I_{cu}$
- Isolating voltage: $\geq 2000V$
- Electrical wear resistance (number of cycles): 8000
- Mechanical (number of cycles): 50000
- Class of current limiting: 3
- IP code: IP>20
- Tripping curve:
 - B – the maximum current release breaks between 3 and 5 I_n ; used to protect long circuits and generators
 - C – the maximum current release breaks between 5 and 10 I_n ; used to protect main power supply cables and conventional consumers
- Joining terminal: Combined screw clamp made of 1.5 cold extruded Q235-A material with additional coating
- Plastic box – nylon glass filled FR material
- Status indicator
- Box permitivity strength: $>18MV/m$
- Abnormal heating wear resistance and fire of the outer parts: $960^{\circ}C / 3s$
- Heat resistance of internal non-electrical components: $850^{\circ}C / 10 s$
- Maximum current release containing:
 - coil: solenoid
 - 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)

TECHNICAL SPECIFICATION

AUTOMATION

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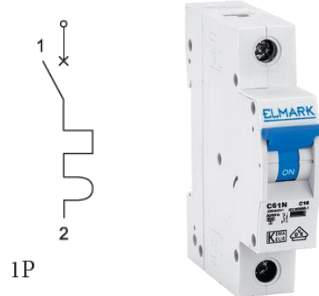
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- thickness: 1.15 to 2.24µm
- drawing effort: from 200 to 400N/mm
- contact head of the movable contact – composition: silver graphite CAg(5)
- dimension 3x3x0.8 (up to 40A) and 4x4x0.8 (up to 63A)
- static contact – composition: pure copper T2Y2
- 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

Variants:



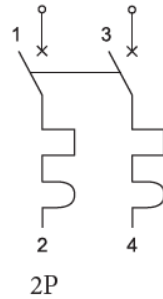
Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended conductor (mm²)	Catalogue number Curve C	Catalogue number Curve B
C61N/1A	1P	1	6	1.0	41100C	41501C
C61N/2A	1P	2	6	1.0	41102C	41502C
C61N/4A	1P	4	6	1.0	41104C	41504C
C61N/6A	1P	6	6	1.0	41106C	41506C
C61N/10A	1P	10	6	1.5	41110C	41510C
C61N/16A	1P	16	6	2.5	41116C	41516C
C61N/20A	1P	20	6	2.5	41120C	41520C
C61N/25A	1P	25	6	4.0	41125C	41525C
C61N/32A	1P	32	6	6.0	41132C	41532C
C61N/40A	1P	40	6	10.0	41140C	41540C
C61N/50A	1P	50	6	10.0	41150C	41550C
C61N/63A	1P	63	6	10.0	41163C	41563C

TECHNICAL SPECIFICATION

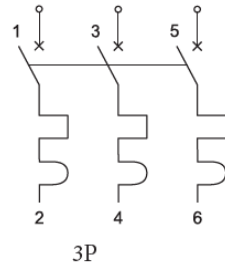
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Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended conductor (mm ²)	Catalogue number Curve C	Catalogue number Curve B
C62N/2A	2P	2	6	1.0	41202C	41602C
C62N/4A	2P	4	6	1.0	41204C	41604C
C62N/6A	2P	6	6	1.0	41206C	41606C
C62N/10A	2P	10	6	1.5	41210C	41610C
C62N/16A	2P	16	6	2.5	41216C	41616C
C62N/20A	2P	20	6	2.5	41220C	41620C
C62N/25A	2P	25	6	4.0	41225C	41625C
C62N/32A	2P	32	6	6.0	41232C	41632C
C62N/40A	2P	40	6	10.0	41240C	41640C
C62N/50A	2P	50	6	10.0	41250C	41650C
C62N/63A	2P	63	6	10.0	41263C	41663C



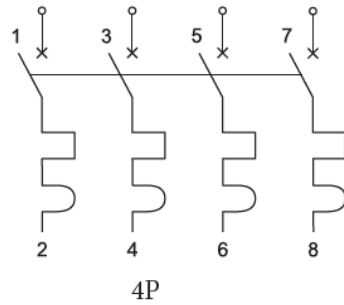
Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm ²)	Catalogue number Curve C	Catalogue number Curve B
C63N/2A	3P	2	6	1.0	41302C	41702C
C63N/4A	3P	4	6	1.0	41304C	41704C
C63N/6A	3P	6	6	1.0	41306C	41706C
C63N/10A	3P	10	6	1.5	41310C	41710C
C63N/16A	3P	16	6	2.5	41316C	41716C
C63N/20A	3P	20	6	2.5	41320C	41720C
C63N/25A	3P	25	6	4.0	41325C	41725C
C63N/32A	3P	32	6	6.0	41332C	41732C
C63N/40A	3P	40	6	10.0	41340C	41740C
C63N/50A	3P	50	6	10.0	41350C	41750C
C63N/63A	3P	63	6	10.0	41363C	41763C

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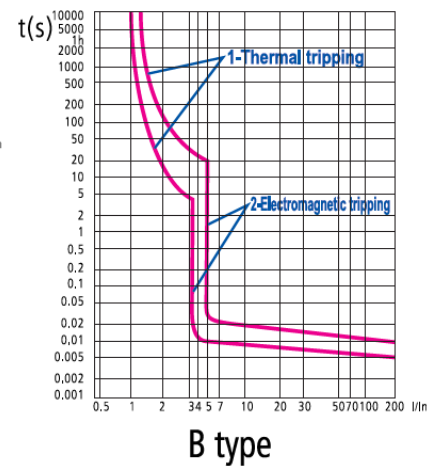
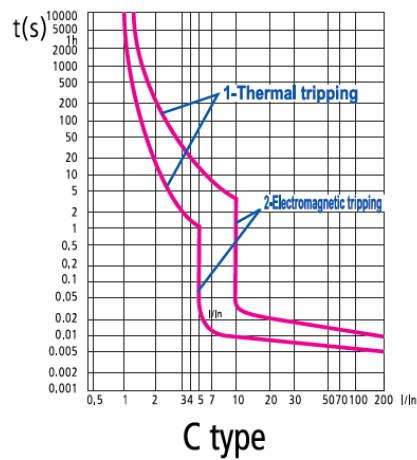
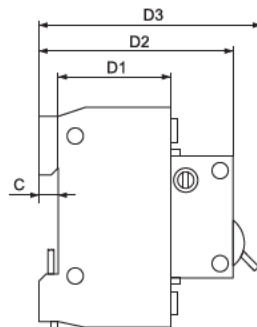
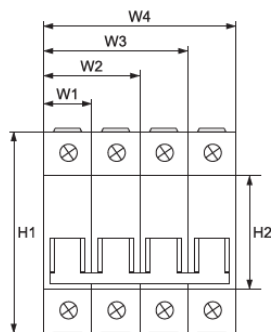


Type	Number of poles	Rated current I_n (A)	Breaking capacity (kA)	Recommended conductor (mm ²)	Catalogue number Curve C	Catalogue number Curve B
C64N/2A	4P	2	6	1.0	41402C	41802C
C64N/4A	4P	4	6	1.0	41404C	41804C
C64N/6A	4P	6	6	1.0	41406C	41806C
C64N/10A	4P	10	6	1.5	41410C	41810C
C64N/16A	4P	16	6	2.5	41416C	41816C
C64N/20A	4P	20	6	2.5	41420C	41820C
C64N/25A	4P	25	6	4.0	41425C	41825C
C64N/32A	4P	32	6	6.0	41432C	41832C
C64N/40A	4P	40	6	10.0	41440C	41840C
C64N/50A	4P	50	6	10.0	41450C	41850C
C64N/63A	4P	63	6	10.0	41463C	41863C

Dimencions:

Dimensions (mm)

C	D1	D2	D3	H1
5	50	65	72	81
H2	W1	W2	W3	W4
45	18	36	54	72



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Additional information

Curve C:

Catalogue number Curve C	Barcodes	Packing/Box (pcs)	Catalogue number Curve C	Barcodes	Packing/Box (pcs)
41100C	3800131235053	12/240	41302C	3800131235176	4/80
41102C	3800131235060	12/240	41304C	3800131235183	4/80
41104C	3800131235077	12/240	41306C	3800131235190	4/80
41106C	3800131235084	12/240	41310C	3800131235206	4/80
41110C	3800131235091	12/240	41316C	3800131235213	4/80
41116C	3800131235107	12/240	41320C	3800131235220	4/80
41120C	3800131235114	12/240	41325C	3800131235237	4/80
41125C	3800131235121	12/240	41332C	3800131235244	4/80
41132C	3800131235138	12/240	41340C	3800131235251	4/80
41140C	3800131235145	12/240	41350C	3800131235268	4/80
41150C	3800131235152	12/240	41363C	3800131235275	4/80
41163C	3800131235169	12/240	41402C	3800131236470	3/60
41202C	3800131236364	6/120	41404C	3800131236487	3/60
41204C	3800131236371	6/120	41406C	3800131236494	3/60
41206C	3800131236388	6/120	41410C	3800131236500	3/60
41210C	3800131236395	6/120	41416C	3800131236517	3/60
41216C	3800131236401	6/120	41420C	3800131236524	3/60
41220C	3800131236418	6/120	41425C	3800131236531	3/60
41225C	3800131236425	6/120	41432C	3800131236548	3/60
41232C	3800131236432	6/120	41440C	3800131236555	3/60
41240C	3800131236449	6/120	41450C	3800131236562	3/60
41250C	3800131236456	6/120	41463C	3800131236579	3/60
41263C	3800131236463	6/120			

Additional information

Curve B:

Catalogue number Curve B	Barcodes	Packing/ Box (pcs)	Catalogue number Curve B	Barcodes	Packing/ Box (pcs)
41501C	3800131236241	12/240	41702C	3800131236586	4/80
41502C	3800131236258	12/240	41704C	3800131236593	4/80
41504C	3800131236265	12/240	41706C	3800131236609	4/80
41506C	3800131236272	12/240	41710C	3800131236616	4/80
41510C	3800131236289	12/240	41716C	3800131236623	4/80
41516C	3800131236296	12/240	41720C	3800131236630	4/80
41520C	3800131236302	12/240	41725C	3800131236647	4/80
41525C	3800131236319	12/240	41732C	3800131236654	4/80
41532C	3800131236326	12/240	41740C	3800131236661	4/80
41540C	3800131236333	12/240	41750C	3800131236678	4/80
41550C	3800131236340	12/240	41763C	3800131236685	4/80
41563C	3800131236357	12/240	41802C	3800131237859	3/60
41602C	3800131237743	6/120	41804C	3800131237866	3/60
41604C	3800131237750	6/120	41806C	3800131237873	3/60
41606C	3800131237767	6/120	41810C	3800131237880	3/60
41610C	3800131237774	6/120	41816C	3800131237897	3/60
41616C	3800131237781	6/120	41820C	3800131237903	3/60
41620C	3800131237798	6/120	41825C	3800131237910	3/60
41625C	3800131237804	6/120	41832C	3800131237927	3/60
41632C	3800131237811	6/120	41840C	3800131237934	3/60
41640C	3800131237828	6/120	41850C	3800131237941	3/60
41650C	3800131237835	6/120	41863C	3800131237958	3/60
41663C	3800131237842	6/120			



**Documents
corresponding to the
product:**

- Standard: EN60898-1