

ELMARK[®]

The Brand of Electricity

NEW MINIATURE CIRCUIT BREAKERS (MCB) C60DC



Functions:

- For lowering constant current voltaic arc and use of the breaker at constant current consumer protection
- Protection of the electrical circuits from overload or short circuit of the outer circuit at alternating current and constant current power supply circuits
- For commutation and control of electrical circuits
- In combination with auxiliary alternating current devices for remote control, commutation or indication of the protected circuit
- For mounting in industrial buildings
- For protection of consumers generating short circuit currents to 6000 A at alternating current power supply

Technical data:

- Rated voltage: 240V; AC/DC
- Breaking capacity (cycle O -CO) in accordance with standard EN 60 898- 1: 6000A
- Rated breaking capacity $I_{cs}=75\% I_{cu}$
- Insulating voltage: $\geq 2000V$
- Electrical wear resistance (number of cycles): ≥ 4000
- Mechanical wear resistance (number of cycles): ≥ 20000
- Class of current limiting: 3
- IP code: IP>20
- Tripping curve: C – the maximum current release breaks between 5 and 10 I_n ; used to protect power supply cables and conventional consumers
- Joining terminal: flat (tunnel) screw terminal with composition 1.5 coldly draw-plated plane Q235– A
- Plastic box – nylon glass filled FR material
- Box permitivity strength: $>18MV/m$
- Abnormal heating wear resistance and fire of the outer parts: $960^{\circ}C / 3s$
- Maximum current release containing:
 - Coil: solenoid
 - resistance: from 0.6 to 180m
 - welding effort: $<150\,000\,N/mm$
 - bimetal plate – composition: 5J158 to TB180 according to the current
 - thickness: 0.6mm (up to 40A) and 0.8mm (up to 63A)
 - thickness: 1.15 to 2.24 μm
 - drawing effort: from 200 to 400N/mm

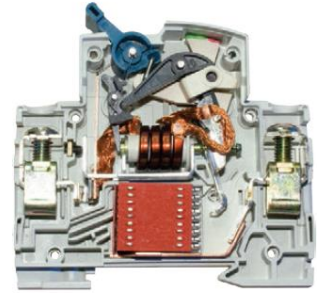
TECHNICAL SPECIFICATION

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- 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)
- metal magnetic plate for lowering the constant current arc
- Conducting:
 - power supply busbar 1P63, 2P63
 - 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

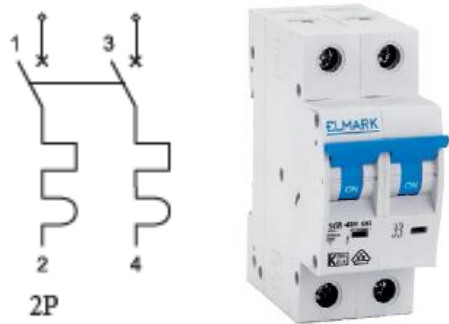
Variants:



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended conductor (mm ²)	Catalogue number Curve C
C61DC/1A	1P	1	6	1.0	41164C
C61DC /2A	1P	2	6	1.0	41165C
C61DC /4A	1P	4	6	1.0	41166C
C61DC /6A	1P	6	6	1.0	41167C
C61DC /10A	1P	10	6	1.5	41168C
C61DC /16A	1P	16	6	2.5	41169C
C61DC /20A	1P	20	6	2.5	41170C
C61DC /25A	1P	25	6	4.0	41171C
C61DC /32A	1P	32	6	6.0	41172C
C61DC /40A	1P	40	6	10.0	41173C
C61DC /50A	1P	50	6	10.0	41174C
C61DC /63A	1P	63	6	10.0	41175C

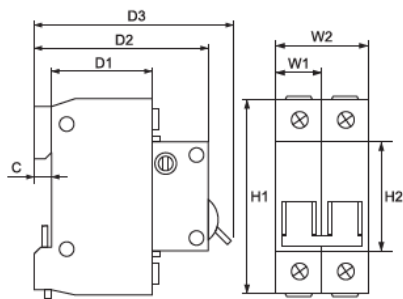
TECHNICAL SPECIFICATION

AUTOMATION



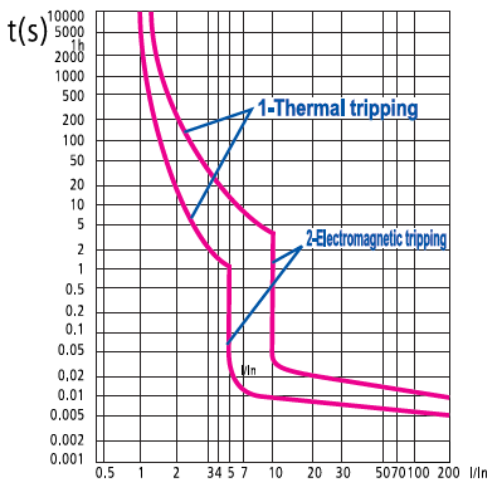
Type		Number of poles	Rated current I _n (A)	Breaking capacity (kA)	Recommended conductor (mm ²)	Catalogue number Curve C
C62DC /2A		2P	2	6	1.0	41176C
C62DC /4A		2P	4	6	1.0	41177C
C62DC /6A		2P	6	6	1.0	41178C
C62DC /10A		2P	10	6	1.5	41179C
C62DC /16A		2P	16	6	2.5	41181C
C62DC /20A		2P	20	6	2.5	41182C
C62DC /25A		2P	25	6	4.0	41183C

Dimencions:



Dimensions (mm)

C	D1	D2	D3
5	49	65	72
H1	H2	W1	W2
78	45	18	36



C type

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Additional information:

Catalogue number Curve C	Barcodes	Packing/Box (pcs)
41164C	3800131236692	12/240
41165C	3800131236708	12/240
41166C	3800131236715	12/240
41167C	3800131236722	12/240
41168C	3800131236739	12/240
41169C	3800131236746	12/240
41170C	3800131236753	12/240
41171C	3800131236760	12/240
41172C	3800131236777	12/240
41173C	3800131236784	12/240
41174C	3800131236791	12/240
41175C	3800131236807	12/240
41176C	3800131237675	6/120
41177C	3800131237682	6/120
41178C	3800131237699	6/120
41179C	3800131237705	6/120
41181C	3800131237712	6/120
41182C	3800131237729	6/120
41183C	3800131237736	6/120

Documents corresponding to the product:

Standard:

- EN60898-1
- EN60898-2

