

Type designation

C6xDC constructive series
 └─ number of poles (1;2;3;4)
C x — rated current
 └─ breaking curve C

Documents corresponding to the product:

Standard EN60898-1
 EN 60898-2

A1

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: 2000V
- * Electrical wear resistance (number of cycles): 4000
- * Mechanical wear resistance (number of cycles): 20000
- * Class of current limiting: 3
- * IP code: IP>20
- * Breaking 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 – not keeping the burning material nylon PA66, UV rays wear resistance
- * Box permitivity 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 180mΩ
 - welding effort: <150 000 N/mm²
 - bimetal plate – composition: 5J158 to TB180 according to 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/mm²
 - 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 mm²
 - flexible conductors up to 16 mm²
- * Tightening moment: 1.33Nm

Mounting

- * vertical
- * DIN-rail
- * for mounting in housing or industrial environment without serious current interference
- * Ambient temperature: -5°C to + 40°C±2° C