

Disconnecter switches DS Series - Datasheet



Bremas Ersce SpA
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Tel +39 02 95651611 Fax +39 02 95651639
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ISO 9001 Certified Quality System

Cod. DS0403BFCD



(purely indicative photo)

Standard and Approvals

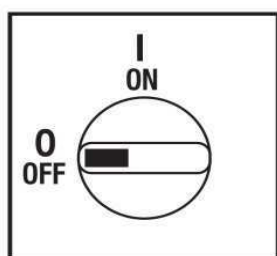
- Suitable as Manual Motor Controller
- Certified UL508 and CSA C22.2 No. 14-13
- Disconnect switch according to IEC/EN 60947-3
- CCC certified



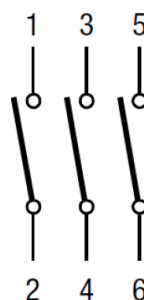
Technical characteristics: Body

- ON-OFF 3 pole
- IP20 protection degree
- Rating operational current: 40A
- Rating thermal current: 40A
- Rating insulation voltage: 800V
- Base mounting Direct Operation
- Fixing: - 2 screws
- DIN rail
- Switching angle: 90°
- Class V2 self-extinguishing thermoplastic housing
- Positive opening double break contacts, silver alloy made

Plate and position



Electrical scheme



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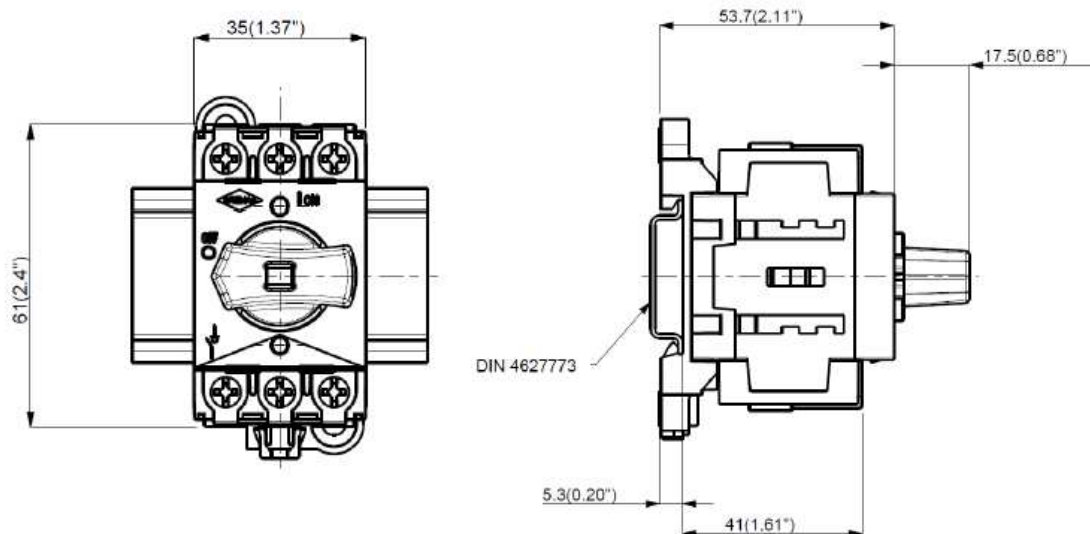


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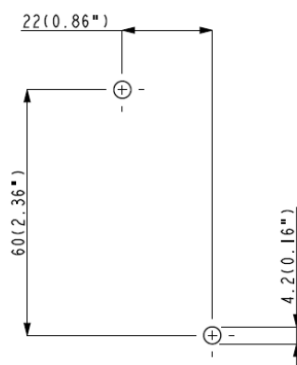
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Dimensions

measures in mm (in)



Drilling templates



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| | | | | |
|---|---------|--------|---------------------------------------|----|
| Technical data IEC 947-3 EN60947-3 | | | | |
| Rated insulation voltage | Ui | V | 800 | |
| Rated operational voltage | Ue | V | 800 | |
| Rated impulse withstand voltage | Uimp | kV | 8 | |
| Rated thermal current for open switch | Ith | A | 40 | |
| Rated thermal current for enclosed switch | Ithe | A | 40 | |
| Rated operational frequency | | Hz | 50/60 | |
| Power dissipation for each pole | | W | 2,5 | |
| Rated operational current | | | | |
| AC-21A Switching resistive loads, including moderate overloads 3P/3P+N | 690V | Ie | A | 40 |
| AC-22A Switching of mixed resistive and inductive loads, including moderate overloads 3P/3P+N | 690V | Ie | A | 40 |
| Rated operational power | | | | |
| AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole | 400V | Kw (A) | 15 (28) | |
| | 690V | Kw (A) | 15 (18) | |
| AC-3 Squirrel cage motors: starting, switching off motors during running 3 phase - 3 pole | 400V | Kw (A) | 11 (21) | |
| | 690V | Kw (A) | 11 (12) | |
| Rated breaking capability in AC-23A (cosφ=0,45) | 400V | A | 228 | |
| | 690V | A | 144 | |
| Short circuit protection | | | | |
| Rated short time withstand current | Icw | A | 500 | |
| Rated short-circuit make capacity | Icm | A | 750 | |
| Rated conditional short-circuit current | | kA | 10 | |
| With fuses class gG | 500V | A | 40 | |
| Mechanical life (120 cycles/hour) | Mil.Man | | | |
| Connecting capability with flexible wires | Min-Max | mm2 | 1,5-10 | |
| Connecting capability with solid wires | Min-Max | mm2 | 1,5-16 | |
| Connection terminal screw dimensions | | | M4 | |
| Screw tightening torque | | Nm | 1,7 | |
| Technical data UL/CSA (sec. UL508) | | | | |
| General use voltage | Ue | V | 600 | |
| General use current | 600Vac | Ie | A | 40 |
| Rated operating power | | | | |
| 1 phase - 2 pole | 120V | Hp/FLA | - | |
| | 240V | Hp/FLA | - | |
| 3 phase - 3 pole | 200V | Hp/FLA | - | |
| | 240V | Hp/FLA | - | |
| | 480V | Hp/FLA | - | |
| | 600V | Hp/FLA | 10/11 | |
| Line protection fuses (Class RK5, 600Vac, 200kA A.I.C.) | | A | 40 | |
| Short Circuit Rating@600Vac | | A | - | |
| | | kA | 5 | |
| Auxiliary contacts designation | | | AC Voltage, "Heavy Pilot Duty" (A600) | |
| Mechanical characteristics | | | | |
| Connecting capability with flexible wires | Min-Max | AWG | 16/08 | |
| Connecting capability with solid wires | Min-Max | AWG | 16/06 | |
| Screw tightening torque | | ib.in | 12 | |
| Protection degree IEC 529 EN 60529 | | | | |
| Terminals | | | IP20 | |
| Handles | | | IP66 | |
| Ambient conditions | | | | |
| Operational ambient temperature | | °C | -25 ÷ +55 | |
| Storage ambient temperature | | °C | -25 ÷ +55 | |
| Withstand to constant humid according to IEC 60068 | | | sec. IEC 60068-2-78 | |
| Withstand to cycling humid according to IEC 60069 | | | sec. IEC 60068-2-30 | |
| Auxiliary contacts | | | DSC040N0_DSC040NC_ | |
| Rated insulation voltage | Ui | V | 800 | |
| Rated thermal current for open switch | Ith | A | 10 | |
| AC-15 Control of a.c electromagnetic loads | 230V | A | 3 | |