Disconnector switches DS Series – Datasheet



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ISO 9001 Certified Quality System

Cod. DS0203GDY4L



Technical characteristics: Body

- ON-OFF 3 pole
- IP20 Protection degree
- Rated operational current In: 20A
- Rated thermal current Ith: 25A
- Rated insulation voltages Ui: 800V
 - Rear Mounting

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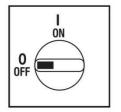
- Fixing at single hole ø22mm
- Switching angle: 90°
 - Class V2 self-extinguishing thermoplastic housing
- · Positive opening double break contacts, silver alloy made



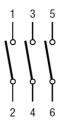
Technical characteristics: Plate and knob

- Yellow plate 48x48mm and red padlockable knob
- Protection degree IP66
- Fixing at single hole ø22mm

Plate and position



Electrical scheme



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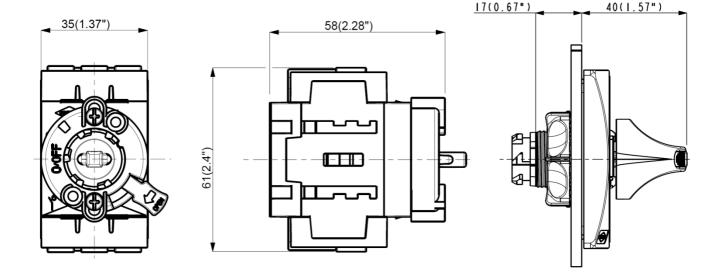


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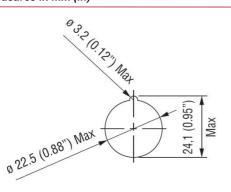
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Dimensions measures in mm (in)



Drilling templates

measures in mm (in)



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| Technical data IEC 947-3 EN 60947-3 Rated insulation voltage Rated operational voltage Rated impulse withstand voltage | | Ui | V | DS020 |
|---|--------|--------------|--------|---------------------------------------|
| Rated insulation voltage Rated operational voltage | | Ui | V | |
| Rated operational voltage | | | | 800 |
| | | Ue | V | 800 |
| | | Uimp | kV | 8 |
| Rated thermal current for open switch | | Ith | A | 25 |
| Rated thermal current for enclosed switch | | Ithe | A | 25 |
| Rated operational frequency | | ittic | Hz | 50/60 |
| Power dissipation for each pole | | | W | 0,6 |
| | | | vv | 0,0 |
| Rated operational current | 6001/ | | | 20 |
| AC-21A Switching resistive loads, including moderate overloads 3P/3P+N | 690V | le | A | 20 |
| AC-22A Switching of mixed resistive and inductive loads, including moderate overloads 3P/3P+N | 690V | le | A | 20 |
| Rated operational power | | | | |
| AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole | | 400V | Kw (A) | 9 (18) |
| | | 690V | Kw (A) | 9 (13) |
| AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole | | 400V | Kw (A) | 5,5 (10) |
| | | 690V | Kw (A) | 5,5 (6) |
| Rated breaking capability in AC-23A (cos φ =0,45) | | 400V | Α | 144 |
| | | 690V | А | 104 |
| Short circuit protection | | | | |
| Rated short time withstand current | | lcw | A | 300 |
| Rated short-circuit make capacity | | Icm | A | 750 |
| Rated conditional short-circuit current | | | kA | 10 |
| With fuses class gG | | 500V | A | 20 |
| Mechanical life (120 cycles/hour) | | Mil.Man | A | 20 |
| 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 | le | A | 20 |
| Rated operating power | | | | |
| 1 phase - 2 pole 3 phase - 3 pole | | 120V | Hp/FLA | 1/- |
| | | 240V | Hp/FLA | 2/- |
| | | 200V | Hp/FLA | -/- |
| | | 240V | Hp/FLA | 5/15,2 |
| | | 480V | Hp/FLA | 10/14 |
| | | 600V | Hp/FLA | 15/17 |
| Line protection fuses (Class RK5, 600Vac, 200kA A.I.C.) | | | A | 20 |
| | | | А | - |
| Short Circuit Rating@600Vac | | | kA | 5 |
| Auxiliary contacts designation | | | | AC Voltage, "Heavy Pilot Duty" (A600) |
| Mechanical characteristics | | | | (1000) |
| Connecting capability with flexible wires | | Min-Max | AWG | 16/08 |
| Connecting capability with solid wires | | Min-Max | AWG | 16/08 |
| | | IVIII1-IVIdX | | |
| Screw tightening torque | | | ib.in | 12 |
| Protection degree IEC 529 EN 60529 | | | | 1020 |
| Terminals | | | | IP20 |
| Handles | | | | IP66 |
| Ambient conditions | | | | |
| Operational ambient temperature | | | °C | -25 ÷ +55 |
| Storage ambient temperature | | | °C | -25 ÷ +55 |
| | | | | sec. IEC 60068-2-78 |
| Withstand to constant humid according to IEC 60068 | | | | sec. IEC 60068-2-30 |
| | | | | JCC. IEC 00000 2 50 |
| Withstand to constant humid according to IEC 60068 | | | | DSC040N0_DSC040NC_ |
| Withstand to constant humid according to IEC 60068 Withstand to cycling humid according to IEC 60069 Auxiliary contacts | | Ui | V | DSC040N0_DSC040NC_ |
| Withstand to constant humid according to IEC 60068 Withstand to cycling humid according to IEC 60069 | | Ui | V | |

Standard

IEC/EN 60947-3; UL508

Approvals



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