

Safety Relay SR4 D/M

- 4 pole safety relay with either 2 NO+2 NC or 3 NO+1 NC contacts
- Forcibly guided contacts according to EN 50205
- Rated current 8 A
- Compact design & space efficient

Applications

Emergency shut-off, machine control, elevator and escalator control, light barrier control



F0244-C

Approvals

VDE REG.-Nr. 40005334, **us** E214024, 968/EL 230.03/07
 Technical data of approved types on request

Contact data

| | |
|--|---|
| Contact configuration | 3 NO contacts and 1 NC contact or 2 NO contacts and 2 NC contacts |
| Contact set | single contact, forcibly guided type A according to EN 50205 |
| Type of interruption | micro disconnection |
| Rated voltage / max. switching voltage AC | 250 / 400 VAC |
| Rated current | 8 A |
| Maximum breaking capacity AC | 2000 VA |
| Contact material | AgSnO ₂ |
| Minimum contact load | 10 mA / 5 V |
| Contact resistance | ≤ 100 mOhm / 1 A / 24 VDC ≤ 20 Ohm / 10 mA / 5 VDC |
| Rated frequency of operation with / without load | 6 min ⁻¹ / 150 min ⁻¹ |

Contact ratings

| Type | Contact Load*) | Ambient temp. [°C] | Cycles |
|------|----------------|--------------------|--------|
|------|----------------|--------------------|--------|

| EN60947-5-1 | | | |
|-------------|------|---|------------|
| SR4D/M | 1 NO | IEC 947-5-1 (AC15) utilization category 250 VAC / 3 A | 23°C 6,050 |
| SR4D/M | 1 NO | IEC 947-5-1 (DC13) utilization category 24 VDC / 3 A | 23°C 6,050 |

*) load on one pole

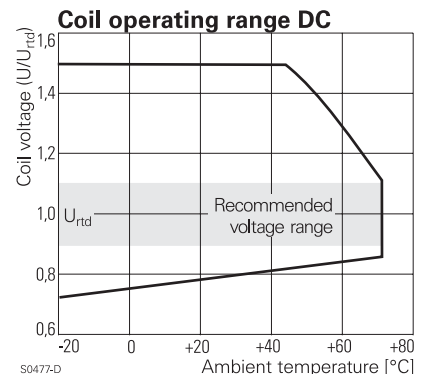
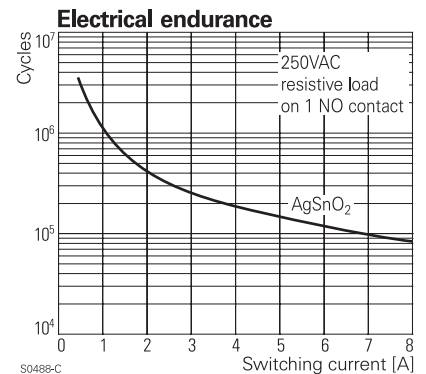
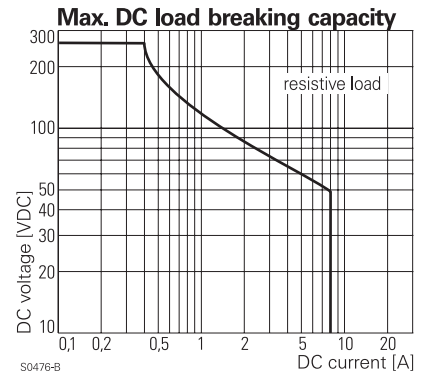
Coil data

| | |
|----------------------------------|-------------|
| Rated coil voltage range DC coil | 5...110 VDC |
| Operative range to IEC 61810 | 2 |

Coil versions, DC-coil

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ohm | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|---------------------|---------------------|
| 005 | 5 | 3.8 | 0.5 | 31±10% | 806 |
| 006 | 6 | 4.5 | 0.6 | 45±10% | 800 |
| 009 | 9 | 6.8 | 0.9 | 101±10% | 802 |
| 012 | 12 | 9.0 | 1.2 | 180±10% | 800 |
| 015 | 15 | 11.3 | 1.5 | 281±10% | 801 |
| 018 | 18 | 13.5 | 1.8 | 405±10% | 800 |
| 021 | 21 | 15.8 | 2.1 | 551±10% | 800 |
| 024 | 24 | 18.0 | 2.4 | 720±10% | 800 |
| 036 | 36 | 27.0 | 3.6 | 1620±10% | 800 |
| 040 | 40 | 30.0 | 4.0 | 2000±10% | 800 |
| 048 | 48 | 36.0 | 4.8 | 2880±10% | 800 |
| 060 | 60 | 45.0 | 6.0 | 4500±10% | 800 |
| 085 | 85 | 63.8 | 8.5 | 9031±10% | 800 |
| 110 | 110 | 82.5 | 11.0 | 15125±10% | 800 |

All figures are given for coil without preenergization, at ambient temperature +23°C
 Other coil voltages on request



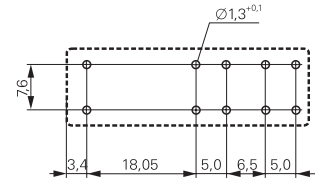
Safety Relay SR4 D/M (Continued)

Insulation

| | |
|---|--|
| Dielectric strength coil-contact circuit | 4000 V _{rms} |
| open contact circuit | 1500 V _{rms} |
| adjacent contact circuits | 2500 V _{rms} |
| Clearance / creepage coil-contact circuit | ≥ 10 / 10 mm |
| adjacent contact circuits | ≥ 3 / 3.5 mm |
| adjacent contact circuits (UL840) | ≥ 1.3 / 3.5 mm |
| | ≥ 5.5 / 5.5 mm (in longitudinal direction) |
| Material group of insulation parts | IIIa |
| Tracking index of relay base | PTI 250 |
| Insulation to IEC 61810-1 | |
| Type of insulation coil-contact circuit | reinforced |
| open contact circuit | micro disconnection |
| adjacent contact circuits | basic |
| Rated insulation voltage | 250 V |
| Pollution degree | 2 |
| Rated voltage system | 230 / 400 V |
| Overvoltage category | III |
| Insulation to EN 50178 | |
| Type of insulation coil-contact circuit | reinforced |
| adjacent contact circuits | basic |
| | reinforced (in longitudinal direction) |

PCB layout / terminal assignment

Bottom view on solder pins



S0413-BC

2 NO and 2 NC contacts



S0413-BB

3 NO and 1 NC contacts



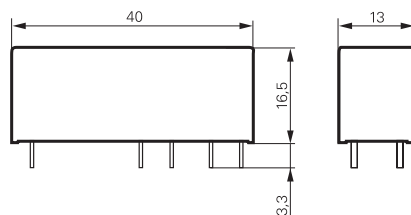
S0413-BA

Other data

| | |
|---|---|
| Mechanical endurance | 10x10 ⁶ cycles |
| Material | |
| RoHS - Directive 2002/95/EC | compliant as per product date code 0407 |
| Environment | |
| Ambient temperature range | -25...+70°C |
| Vibration resistance (function) NO / NC contact | > 10 / 2 g, 10...200 Hz |
| Shock resistance (function) NO / NC contact | > 10 / 2 g, 11 ms half sine |
| Category of protection | RT III ¹⁾ |
| Processing | |
| Resistance to soldering heat | 260°C / 5 s |
| Relay weight | 16 g |
| Packaging unit | 10 pcs |

¹⁾ please contact technical support for washing parameters

Dimensions



S0412-BH

Product key

Typical product key

SR4 D 4 012

Type

SR4 Safety Relay SR4 D/M

Contact configuration

D 2 NO + 2 NC contacts (2 form A + 2 form B)
M 3 NO + 1 NC contacts (3 form A + 1 form B)

Contact material

4 AgSnO₂

Coil

Coil code = rated coil voltage (e.g. 024=24 VDC)

Other types on request

Safety Relay SR4 D/M (Continued)

| Product key | Type | Contact configuration | Contact material | Coil | Part number | | | |
|-------------|---------------------|-----------------------|--------------------|---------|----------------------|--|-------|-------------|
| SR4D4005 | 4 pole safety relay | 2 NO + 2 NC contacts | AgSnO ₂ | 5 VDC | 7-1415054-1 | | | |
| SR4D4006 | | | | 6 VDC | 8-1415054-1 | | | |
| SR4D4009 | | | | 9 VDC | 9-1415054-1 | | | |
| SR4D4012 | | | | 12 VDC | 1415055-1 | | | |
| SR4D4018 | | | | 18 VDC | 1-1415055-1 | | | |
| SR4D4021 | | | | 21 VDC | 2-1415055-1 | | | |
| SR4D4024 | | | | 24 VDC | 3-1415055-1 | | | |
| SR4D4036 | | | | 36 VDC | 4-1415055-1 | | | |
| SR4D4040 | | | | 40 VDC | 5-1415055-1 | | | |
| SR4D4048 | | | | 48 VDC | 6-1415055-1 | | | |
| SR4D4060 | | | | 60 VDC | 7-1415055-1 | | | |
| SR4D4085 | | | | 85 VDC | 8-1415055-1 | | | |
| SR4D4110 | | | | 110 VDC | 9-1415055-1 | | | |
| SR4M4005 | | | | | 3 NO + 1 NC contacts | | 5 VDC | 5-1415053-1 |
| SR4M4006 | | | | | | | 6 VDC | 6-1415053-1 |
| SR4M4009 | 9 VDC | 7-1415053-1 | | | | | | |
| SR4M4012 | 12 VDC | 8-1415053-1 | | | | | | |
| SR4M4018 | 18 VDC | 9-1415053-1 | | | | | | |
| SR4M4021 | 21 VDC | 1415054-1 | | | | | | |
| SR4M4024 | 24 VDC | 4-1415053-1 | | | | | | |
| SR4M4036 | 36 VDC | 1-1415054-1 | | | | | | |
| SR4M4040 | 40 VDC | 2-1415054-1 | | | | | | |
| SR4M4048 | 48 VDC | 3-1415054-1 | | | | | | |
| SR4M4060 | 60 VDC | 4-1415054-1 | | | | | | |
| SR4M4085 | 85 VDC | 5-1415054-1 | | | | | | |
| SR4M4110 | 110 VDC | 6-1415054-1 | | | | | | |

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