General Purpose
Force Guided Relays

SCHRACK

Force Guided Relay SR6 D/M

- 4 pole relay with force guided contacts according to EN 50205
- High insulation distances between electrical circuits

Typical applications
Emergency shut-off, press control, machine control, elevator and escalator control, safety relays.

Approvals
VDE 128935, UL E214024, TÜV 968/EL 350, CQC 060017015577

Technical data of approved types on request.

Contact Data

Contact arrangement
3 form A + 1 form B contacts
3 NO + 1 NC,
2 form A + 2 form B contacts
2 NO + 2 NC

Rated voltage
250VAC
Max. switching voltage
400VAC
Rated current
8A

Contact material
AgSnO2
Contact style
single contact, force guided type A according to EN 50205

Min. recommended contact load
5V, 10mA
Initial contact resistance
≤100mΩ at 1A, 24VDC
≤20Ω at 10mA, 5VDC

Frequency of operation, with/without load
6/150min⁻¹

Contact ratings, IEC 60947-5-1,
on 1 form A (NO) contact
AC15-5A
DC13-6A

Mechanical endurance
10x10⁶ operations

Coil Data (continued)

Coil versions, DC-coil

<table>
<thead>
<tr>
<th>Coil code</th>
<th>Rated voltage VDC</th>
<th>Operate voltage VDC</th>
<th>Release voltage VDC</th>
<th>Coil resistance Ω±10%</th>
<th>Rated coil power mW</th>
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</thead>
<tbody>
<tr>
<td>024</td>
<td>24</td>
<td>18</td>
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<td>10080</td>
<td>1200</td>
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</tbody>
</table>

1) Coil resistance ±12%.
All figures are given for coil without pre-energization, at ambient temperature +23°C.

Insulation Data

Initial dielectric strength
between open contacts
1500Vrms
between contact and coil
4000Vrms
between adjacent contacts
3000Vrms

in longitudinal direction
4000Vrms

Clearance/creepage
between open contacts
≥5.5/5.5mm
between contact and coil
≥5.5/5.5mm
between adjacent contacts
≥15/15mm
in longitudinal direction

Insulation to EN 50178, type of insulation
between contact and coil
reinforced
between adjacent contacts
reinforced

Coil Data

Coil voltage range
5 to 110VDC

Coil versions, DC-coil

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<th>Coil resistance Ω±10%</th>
<th>Rated coil power mW</th>
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</thead>
<tbody>
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Catalog and product data, Definitions’ section, application notes and all specifications are subject to change.
General Purpose Force Guided Relays

Force Guided Relay SR6 D/M (Continued)

Other Data
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature -25 to 70°C
Category of environmental Protection IEC 61 810 RTIII
Weight 30g
Resistance to soldering heat THT IEC 60068-2-20 260°C/5s
Packaging/unit tube/10 pcs.

For more detailed information see product specification 2158003

Accessories
27E1079 SR6A and SR6B socket (1423991-1)
27E1081 SR6C socket (1423992-1)
24A043 Relay hold down clip (1423994-1)
For details see datasheet 1654787

Dimensions

PCB layout / terminal assignment
Bottom view on solder pins

2 form A + 2 form B, 2 NO + 2 NC contacts

3 form A + 1 form B, 3 NO + 1 NC contacts

Product code structure

<table>
<thead>
<tr>
<th>Type</th>
<th>Contact arrangement</th>
<th>Contact material</th>
<th>Coil</th>
<th>Part number</th>
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<tbody>
<tr>
<td>SR6D4012</td>
<td>4 pole relay with force guided contacts</td>
<td>2 form A + 2 form B, 2 NO + 2 NC contacts</td>
<td>AgSnO₂</td>
<td>12VDC</td>
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<td>SR6D4018</td>
<td>4 pole relay with force guided contacts</td>
<td>2 form A + 2 form B, 2 NO + 2 NC contacts</td>
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<td>SR6D4021</td>
<td>4 pole relay with force guided contacts</td>
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<td>SR6M4024</td>
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