# Power Relay T92

- **2 pole 30 A, 2 CO or 2 NO contacts**
- **High switching capacity up 30 A / 400 VAC**
- **DC- or AC coil**
- **4 kV / 8 mm coil-contact**
- **Insulation to VDE 0631 and VDE 0700**
- **PCB- or quick connect terminals or chassis mount**
- **Adapter for DIN-rail mounting**
- **RoHS compliant (Directive 2002/95/EC) as per product date code 0509**

**Applications**

**Power supplies, heating & ventilation, control equipment**

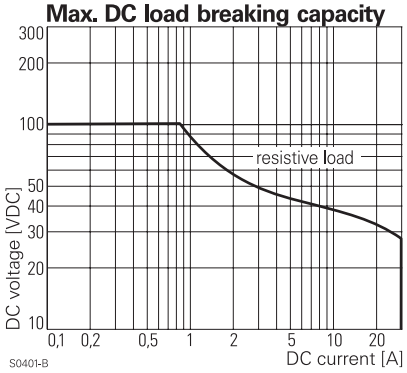
F0167-A

## Approvals

VDE REG.-Nr. 5386, UL E22575, CSA LR15734

Technical data of approved types on request

## Max. DC load breaking capacity




## Contact data

| | | |
|---|---|---|
| Contact configuration | 2 NO contacts | 2 CO contacts |
| Contact set | single contact | |
| Type of interruption | micro disconnection | |
| Rated current | | |
| NO contact (PCB / flange mount) | 30 / 20 A | 30 / 20 A |
| NC contact | | 3 A |
| Rated voltage / max.switching voltage AC | 400 / 600 VAC | |
| Maximum breaking capacity AC, NO / NC contact | 12 kVA | 12 / 1.2 kVA |
| Contact material | AgCdO | |
| Minimum contact load | 500mA, 12V | |
| Mechanical endurance | >5x10$^6$ cycles | |
| Rated frequency of operation with / without load | 7 min$^{-1}$ / 300 min$^{-1}$ | |

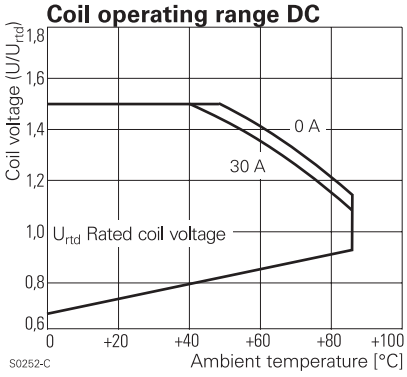
### Contact ratings

| Type | Load | Cycles |
|---|---|---|
| NO contacts, PCB version | 30 A @ 400 VAC, VDE | 1x10$^5$ |
| NO / NC contacts, PCB version | 30 A / 3 A @ 400 VAC, VDE | 3x10$^4$ |
| NO contacts, flange mount version | 20 A @ 400 VAC, VDE | 1x10$^5$ |
| NO / NC contacts, flange mount version | 20 A / 3 A @ 400 VAC, VDE | 3x10$^4$ |
| NO contacts, all versions | 20 A @ 480 VAC, VDE | 1x10$^5$ |
| NO / NC contacts, all versions | 20 A / 3 A @ 28 VDC, UL | 1x10$^5$ |

## Coil data

| | |
|---|---|
| Rated coil voltage range DC coil | 5...110 VDC |
| AC coil | 24...240 VAC |
| Coil power DC coil | 1700 mW |
| AC coil | 4 VA |
| Operative range | 1 |

## Coil operating range DC




### Coil versions, DC-coil

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ohm | Rated coil power mW |
|---|---|---|---|---|---|
| 12 | 12 | 9.0 | 1.2 | 86±10% | 1674 |
| 24 | 24 | 18.0 | 2.4 | 350±10% | 1646 |
| 48 | 48 | 36.0 | 4.8 | 1390±10% | 1658 |
| 110 | 110 | 83.0 | 11.0 | 7255±10% | 1668 |

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



Datasheet Rev. GC1
Issued 2007/03
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Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

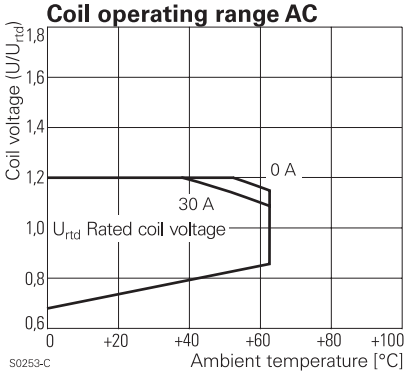
## Power Relay T92 (Continued)

**Coil versions, AC-coil 50/60 Hz**

| Coil code | Rated voltage VAC | Frequ. Hz | Operate voltage VAC | Release voltage VAC | DC-coil resistance Ohm | Rated coil power VA |
|---|---|---|---|---|---|---|
| 24 | 24 | 60 | 19.2 | 2.4 | 44±10% | 4 |
| 120 | 110/120 | 50/60 | 96.0 | 12.0 | 950±10% | 4 |
| 240 | 220/240 | 50/60 | 192.0 | 24.0 | 3800±10% | 4 |

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

**Coil operating range AC**

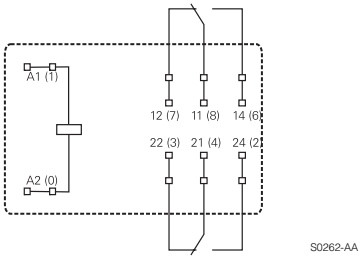


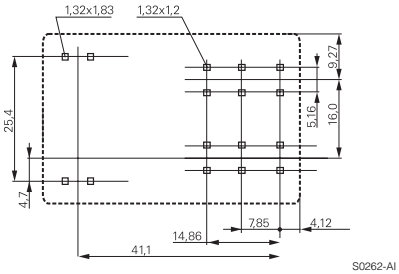

| Insulation | |
|---|---|
| Insulation resistance coil-contact circuit | < $10^9$ Ohms |
| Dielectric strength coil-contact circuit | 4000 $V_{rms}$ |
| open contact circuit | 1500 $V_{rms}$ |
| adjacent contact circuits | 2000 $V_{rms}$ |
| Clearance / creepage coil-contact circuit | ≥ 8 / 9.5 mm |
| Tracking index of relay base | PTI 100M |
| Insulation to IEC 60664-1 | |
| Type of insulation coil-contact circuit | basic |
| open contact circuit | functional |
| adjacent contact circuits | basic |
| Rated insulation voltage | 400 V |
| Pollution degree | 2 |
| Rated voltage system | 400/600 V |
| Overvoltage category | III |

| Other data | |
|---|---|
| RoHS - Directive 2002/95/EC | compliant per product date code 0509 |
| Flammability class according to UL94 | V-0 |
| Ambient temperature range DC-coil | -40...+85°C |
| AC-coil | -40...+65°C |
| Operate- / release time | 15 ms / 10 ms |
| Bounce time NO / NC contact | 10 ms / 15 ms |
| Vibration resistance (function) NO / NC contact | 1.65 mm, 10...55 Hz |
| Shock resistance (function) NO / NC contact | 10 g, 11 ms half sine |
| Shock resistance (destruction) | 100 g, 11 ms half sine |
| Category of protection | RT I (dust protected) |
| | RT III (wash tight) |
| Relay weight | 86 g |
| Packaging unit | 30 pcs |

**PCB layout / terminal assignment**
Bottom view on solder pins

PCB version

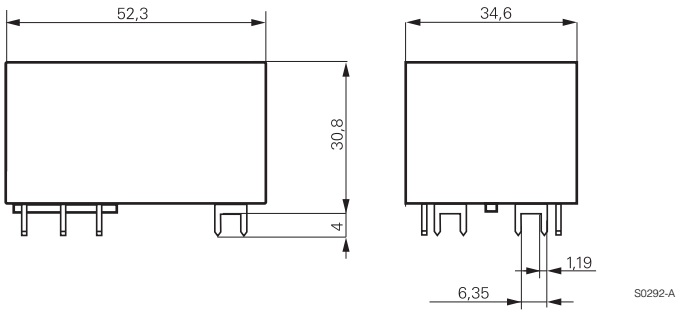



Only necessary terminals are present on 2 NO models.

**Dimensions**

PCB version



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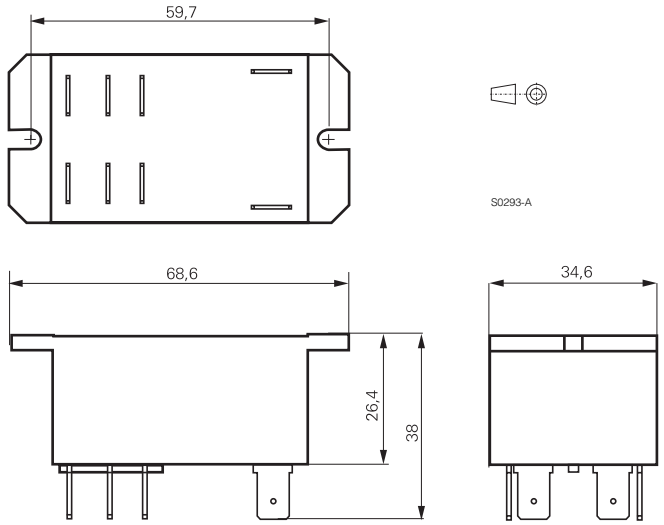
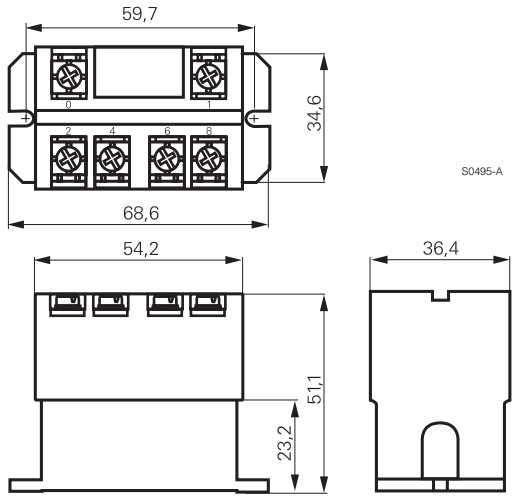
## Power Relay T92 (Continued)

### Dimensions

Flange mount




M4 screw terminals




Only necessary terminals are present on 2 NO models.

### Product key

T 9 2 [ ] [ ] [ ] [ ] 2 [ ] [ ] [ ]

Type

Enclosure
- **P** dust protected
- **S** wash tight (PCB version only)

Contact configuration
- **7** 2 NO contacts
- **11** 2 CO contacts

Coil version
- **A** AC-coil 50/60 Hz
- **D** DC-coil

Mounting
- **1** PCB-version
- **2** Flange mount, 6.35 mm quick connect terminals for contacts and coil
- **5** M4 scew terminals (requires enclosure P and contact configuration 7, UL/CSA approved only)

Contact material
- **2** AgCdO

Coil
- Coil code: please refer to coil versions table

Other types on request

| Product key | Version | Mounting | Cont.configuration | Coil | Coil | Part number |
|---|---|---|---|---|---|---|
| T92P11A22-24 | dust-proof | flange mount | 2 CO contacts | AC-coil | 24 VAC | 4-1393211-3 |
| T92P11A22-240 | | | | | 240 VAC | 4-1393211-4 |
| T92P7A22-120 | | | 2 NO contacts | | 120 VAC | 5-1393211-7 |
| T92P7A22-240 | | | | | 240 VAC | 6-1393211-2 |
| T92P7D12-12 | | pcb-version | | DC-coil | 12 VDC | 6-1393211-5 |
| T92P7D22-12 | | flange mount | | | | 6-1393211-9 |
| T92P7D22-24 | | | | | 24 VDC | 7-1393211-1 |
| T92S11A12-240 | wash tight | pcb-version | 2 CO contacts | AC-coil | 240 VAC | 8-1393211-2 |
| T92S11A22-240 | | flange mount | | | | 8-1393211-7 |
| T92S11D12-24 | | pcb-version | | DC-coil | 24 VDC | 9-1393211-0 |
| T92S7A12-240 | | | 2 NO contacts | AC-coil | 240 VAC | 9-1393211-9 |
| T92S7A22-240 | | flange mount | | | | 0-1393212-5 |
| T92S7D12-24 | | pcb-version | | DC-coil | 24 VDC | 1-1393212-0 |
| T92S7D22-24 | | flange mount | | | | 1-1393212-7 |



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