

**Power Relay T9A**

- 1 pole 30 A, 1 NO or 1 CO contact
- High breaking capacity 7500 VA
- PCB- and PCB/quick connect terminals
- Chassis mount version with quick connect terminals
- UL-class F as standard
- Ambient temperature 85°C
- Open version available

**Applications**

HVAC, power supplies, domestic appliances, measurement&control



F0156-A



F0179-A

**Approvals**

**UL** E22575, **CS** LR15734

Technical data of approved types on request

**Contact data**

|                                          |                                |              |
|------------------------------------------|--------------------------------|--------------|
| Contact configuration                    | 1 NO contact                   | 1 CO contact |
| Contact set                              | single contact                 |              |
| Type of interruption                     | micro disconnection            |              |
| Rated current NO / NC contact            | 30 A                           | 20 / 10 A    |
| Rated voltage / max.switching voltage AC | 240/400 VA                     |              |
| Contact material                         | AgCdO                          |              |
| Minimum contact load                     | ≥ 1A, 5VDC / 12 VAC            |              |
| Mechanical endurance                     | typ. 10x10 <sup>6</sup> cycles |              |

**Contact ratings**

| Type | Load                                 | Cycles            |
|------|--------------------------------------|-------------------|
| NO   | UL General Purpose, 30A @ 240VAC     | 1x10 <sup>5</sup> |
| CO   | UL General Purpose, 20A/10A @ 240VAC | 1x10 <sup>5</sup> |
| NO   | Resistive, 25A @ 240VAC              | 1x10 <sup>5</sup> |
| CO   | Resistive, 20A/10A @ 240VAC          | 1x10 <sup>5</sup> |

**Coil data**

|                                  |            |
|----------------------------------|------------|
| Rated coil voltage range DC coil | 5...48 VDC |
| Coil power DC coil               | 1000mW     |

**Coil versions, DC-coil**

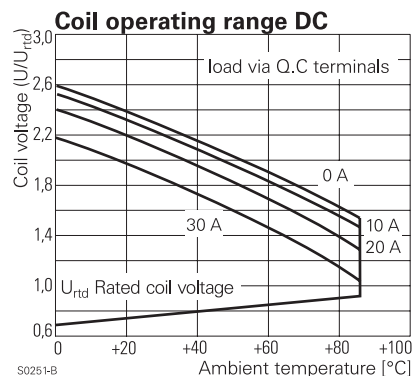
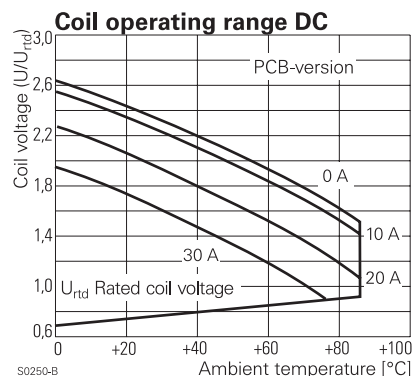
| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-------------------|---------------------|
| 6         | 6                 | 4.5                 | 0.6                 | 36±10%            | 1000                |
| 12        | 12                | 9.0                 | 1.2                 | 144±10%           | 1000                |
| 24        | 24                | 18.0                | 2.4                 | 576±10%           | 1000                |
| 48        | 48                | 36.0                | 4.8                 | 2304±10%          | 1000                |

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

Other coil voltages on request

**Insulation**

|                                            |                                      |
|--------------------------------------------|--------------------------------------|
| Insulation resistance coil-contact circuit | > 10 <sup>9</sup> Ohms               |
| Dielectric strength coil-contact circuit   | 2500 V <sub>rms</sub>                |
| open contact circuit                       | 1500 V <sub>rms</sub>                |
| Clearance / creepage coil-contact circuit  | ≥ 2.5 / 4 mm; ≥ 3.1 / 6.3 mm (UL508) |
| Insulation to IEC 60664-1                  |                                      |
| Type of insulation coil-contact circuit    | basic                                |
| open contact circuit                       | functional                           |
| Rated insulation voltage                   | 250 V                                |
| Pollution degree                           | 3                                    |
| Rated voltage system                       | 240/400 V                            |
| Overvoltage category                       | III                                  |





**Power Relay T9A** (Continued)

**Product key**

|                                                                                                       |          |          |          |  |          |              |  |          |  |  |  |
|-------------------------------------------------------------------------------------------------------|----------|----------|----------|--|----------|--------------|--|----------|--|--|--|
| Type                                                                                                  | <b>T</b> | <b>9</b> | <b>A</b> |  |          | <b>D</b>     |  | <b>2</b> |  |  |  |
| Enclosure                                                                                             |          |          |          |  |          |              |  |          |  |  |  |
| <b>P</b> dust protected (flange mount)                                                                |          |          |          |  |          |              |  |          |  |  |  |
| <b>S</b> wash tight (PCB- or PCB-/quick connect version)                                              |          |          |          |  |          |              |  |          |  |  |  |
| Contact configuration                                                                                 |          |          |          |  |          |              |  |          |  |  |  |
| <b>1</b> 1 NO contact                                                                                 |          |          |          |  | <b>5</b> | 1 CO contact |  |          |  |  |  |
| Coil version                                                                                          |          |          |          |  |          |              |  |          |  |  |  |
| <b>D</b> DC coil 1 W                                                                                  |          |          |          |  |          |              |  |          |  |  |  |
| Mounting                                                                                              |          |          |          |  |          |              |  |          |  |  |  |
| <b>1</b> PCB-version                                                                                  |          |          |          |  |          |              |  |          |  |  |  |
| <b>2</b> PCB-terminals for coil and contacts, quick connect terminals for contacts                    |          |          |          |  |          |              |  |          |  |  |  |
| <b>5</b> Flange mount, 4.75 mm quick connect term. for coil, 6.35 mm quick connect term. for contacts |          |          |          |  |          |              |  |          |  |  |  |
| Contact material                                                                                      |          |          |          |  |          |              |  |          |  |  |  |
| <b>2</b> AgCdO                                                                                        |          |          |          |  |          |              |  |          |  |  |  |
| Coil                                                                                                  |          |          |          |  |          |              |  |          |  |  |  |
| Coil code: please refer to coil versions table                                                        |          |          |          |  |          |              |  |          |  |  |  |
| Other types on request                                                                                |          |          |          |  |          |              |  |          |  |  |  |

| Product key | Version             | Cont-material | Cont.configuration | Coil   | Part number |
|-------------|---------------------|---------------|--------------------|--------|-------------|
| T9AS1D12-12 | pcb-version         | AgCdO         | 1 NO contact       | 12 VDC | 1-1393210-3 |
| T9AS1D12-18 | wash tight          |               |                    | 18 VDC | 1-1393210-5 |
| T9AS1D22-12 | pcb terminals       |               |                    | 12 VDC | 1-1419104-7 |
| T9AS1D22-24 | quick connect term. |               |                    | 24 VDC | 2-1419104-1 |
| T9AS5D22-12 | for contacts        |               | 1 CO contact       | 12 VDC | 3-1419104-3 |
| T9AS5D22-24 | wash tight          |               |                    | 24 VDC | 3-1419104-6 |