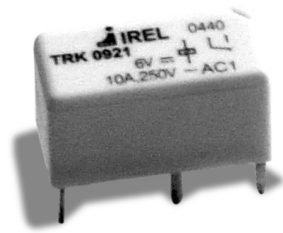


**TRK 09
Miniature Power
Relay**



- 10A 250 VAC make contact load
- 280 mW rated coil power
- 4 kV test voltage between coil and contact
- According to EN 60950 (IEC 950, VDE 0805)

Technical data

Characteristics

- Form: 1 Make
- Material: Ag Sn O₂ (Ag CdO on request)
- Rated Current: 10A
- Max. Operating Voltage: 380VAC, 220VDC
- Max. Switching Power: 2500VA 220W (see diagram)
- Min. Switching Load: 5VDC, 100mA
- Contact Resistance: ≤ 100 mΩ - 5VDC 100mA (New Relay)
- Max. Operating Frequency:
360 operations/h - rated load
36000 operations/h - min. load
- Capacitance cont-cont: ≤ 1,5 pF
- Mechanical Life: ≥ 2x10⁷ operations
- Electrical Life: ≥ 100.000 operations (10A 250V_{AC1})
- Rated Power: abt. 250 mW
- Max. Coil Temperature: 155°C
- Thermal Resistance: abt. 150 K / W
- Operate Voltage: U_{op} ≤ 78% U_n
- Release Voltage: U_{re} ≥ 10% U_n
- Operative Range: class 1, IEC61810-1
- Test Voltage (1 min.): contact-coil ≥ 4 kVrms 50 Hz
contact-contact ≥ 1 kVrms 50 Hz
- Creepage Distances: contact-coil ≥ 5,5 mm
- Clearances: contact-coil ≥ 4,5 mm
- Impulse Voltage Test (1,2/50 μs): contact-coil ≥ 5 kVimp
- Operate Time at U_n: abt. 6 ms
- Release Time: abt. 4 ms
- Bouncing Time: abt. 2 ms
- Insulation Resistance (500 VDC): > 10³ MΩ
- Vibrations Resistance (10–200Hz): 10 g_n
- Shock Resistance (11 ms): functional 20 g_n destructive 100 g_n
- Ambient Temperature: operating -40°C/+70°C,
storage -40°C/+85°C
- Protection Degree: IP 67, IEC 529
- Seal Test (1min): Qc/2, IEC 60068-2-17
- Case Extinguishing: V-0, UL 94
- Mounting Position: optional, 5 mm between relays
- Relay Weight: abt. 5 g

Coil data at 20 °C

| Coil Rated Voltage Un (V _{DC}) | Coil Resistance Rn(Ω) ± 10% | Operative Coil Voltage Range | | |
|---|--------------------------------|--|--|--|
| | | Must Operate U _{op} ≤ (V _{DC}) | Must Release U _{re} ≥ (V _{DC}) | U _{MAX} (V _{DC}) |
| 3 | 32 | 2.3 | 0.3 | 4.5 |
| 5 | 89 | 3.9 | 0.5 | 7.5 |
| 6 | 128 | 4.7 | 0.6 | 9 |
| 9 | 289 | 7.0 | 0.9 | 13.5 |
| 12 | 480 | 9.4 | 1.2 | 18 |
| 18 | 1080 | 14.0 | 1.8 | 27 |
| 24 | 2057 | 18.7 | 2.4 | 36 |
| 36 | 4320 | 28.1 | 3.6 | 54 |
| 48 | 7680 | 37.4 | 4.8 | 72 |

Ordering information

| | | | | |
|--|--|----------|----------|--------------------------|
| | TRK 09 | X | X | XX V_{DC} |
| Basic designation | <div style="border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black; height: 150px; margin-left: 20px;"></div> | | | |
| Contact material: 1 - AgCdO 2 - AgSnO ₂ | | | | |
| Contact form: 1 - Make (SPST - NO) | | | | |
| Rated coil voltage: | | | | |

Dimensions and Terminals Layout in mm

