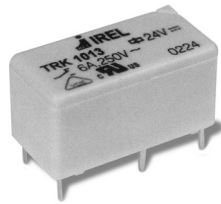


**TRK 10
Miniature Power
Relay**



- 200 mW rated power
- 6A, 250VAC contact load
- Ambient temperature up to +85°C
- 4 kV test voltage between coil and contact
- According to EN 60950 (IEC 950, VDE 0805)
- Washable version, extinguishable casing, plastic bars packing
- UL approval, VDE in process to acquiring

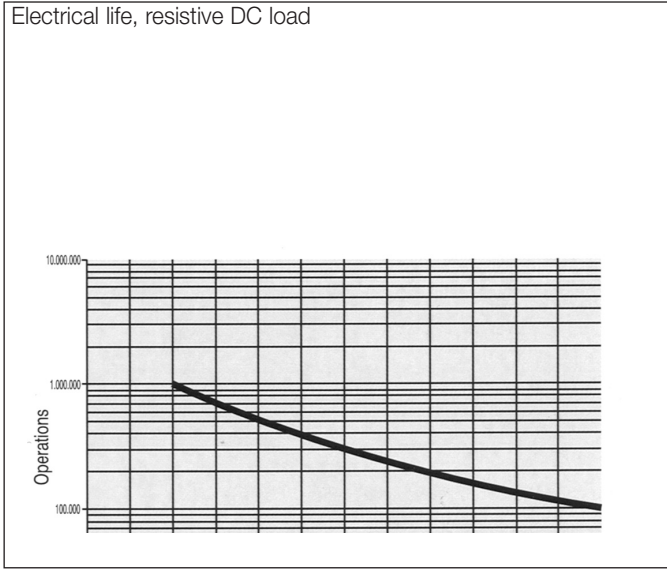
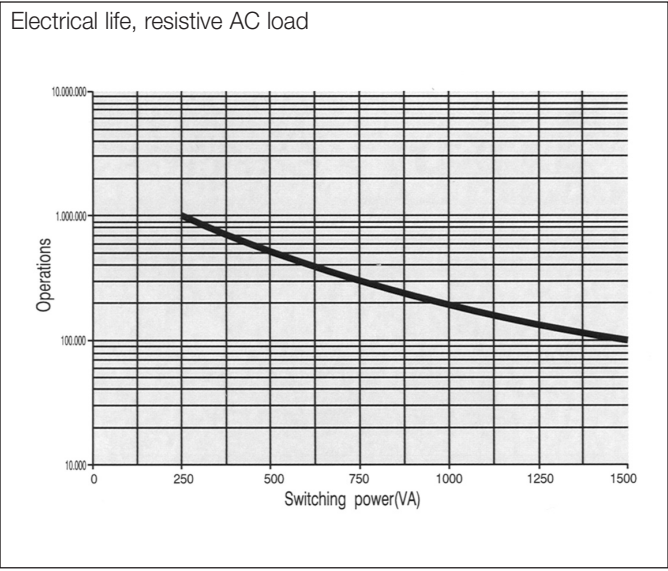
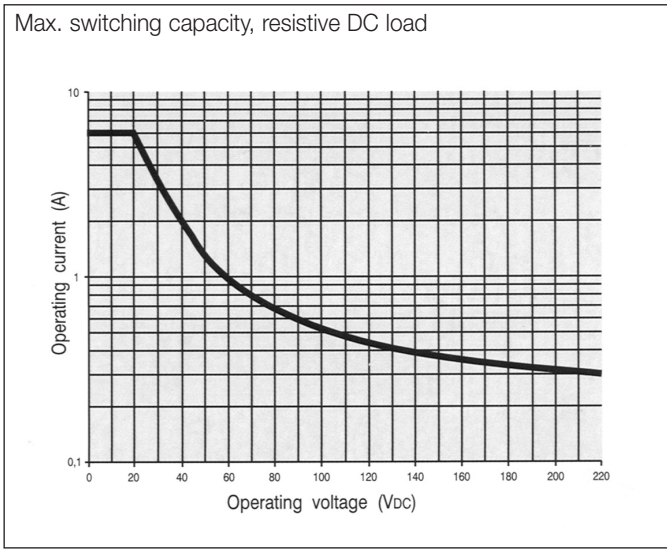
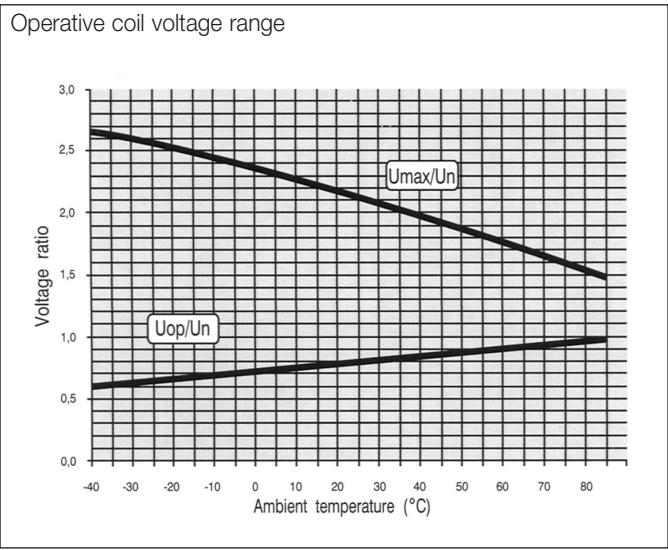
Technical data

Characteristics

- Contact Form: 1 Change - Over, 1 Make, 1Break
- Rated Current: 6A and 5A
- Contact Material: 6A AgCdO AgSnO₂
5A AgNi10
By request with Au clad
- Max. Operating Voltage: 380VAC, 220VDC
- Max. Switching Power: 6A 1500VA 144W - 5A 1250VA 120W
- Min. Switching Load: 5VDC 100mA
- Contact Resistance: $\leq 100 \text{ m}\Omega - 100\text{mA } 5\text{V}_{\text{DC}}$ (New relay)
- Max. Operating Frequency:
360 operations/h rated load
36000 operations/h min. load
- Capacitance cont-cont: $\leq 1,5 \text{ pF}$
- Mechanical Life: $\geq 2 \times 10^7$ operations
- Electrical Life: See diagram
- Rated Power: abt. 200 mW
- Max. Coil Temperature: 155°C
- Thermal Resistance: abt. 155 K / W
- Operate Voltage (cold coil): $U_{\text{op}} \leq 78\% U_{\text{n}}$
- Release Voltage: $U_{\text{re}} \geq 10\% U_{\text{n}}$
- Operative Range: class 1, IEC61810-1
- Test Voltage (1 min.): contact-coil $\geq 4 \text{ kV rms } 50 \text{ Hz}$
contact-contact $\geq 1 \text{ kV rms } 50 \text{ Hz}$
- Degree of Pollution: 2, IEC 60664-1
- Overvoltage Category: III, IEC 60664-1
- Creepage Distances: contact-coil: $\geq 5.5 \text{ mm}$
- Clearances: contact-coil: $\geq 4.5 \text{ mm}$
- Impulse Voltage Test (1,2/50 μs): contact-coil $\geq 5 \text{ kVimp}$
- Operate Time at U_{n} : abt. 6 ms
- Release Time: abt. 4 ms
- Bouncing Time: abt. 2 ms make abt. 10 ms break
- Insulation Resistance (500 VDC): $> 1000 \text{ M}\Omega$
- Vibration Resistance (10–200Hz): 10 g_n IEC 60068-2-6
- Shock Resistance (11 ms): IEC 60068-2-27 functional 20 g_n
IEC 60068-2-27 destructive 100 g_n
- Ambient Temperature: operating $-40^\circ\text{C}/+70^\circ\text{C}$,
storage $-40^\circ\text{C}/+85^\circ\text{C}$
- 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 $U_{\text{n}} (\text{V}_{\text{DC}})$	Coil Resistance $R_{\text{n}}(\Omega) \pm 10\%$	Operative Coil Voltage Range		
		Must Operate $U_{\text{op}} \leq (\text{V}_{\text{DC}})$	Must Release $U_{\text{re}} \geq (\text{V}_{\text{DC}})$	U_{MAX} (V_{DC})
3	45	2.3	0.3	6
5	125	3.9	0.5	11
6	180	4.7	0.6	13
9	405	7.0	0.9	19
12	720	9.4	1.2	26
18	1620	14.0	1.8	39
24	2880	18.7	2.4	52
36	6480	28.1	3.6	78
48	11520	37.4	4.8	104



Ordering information

	TRK10	X	X	XX V _{DC}
Basic designation				
Contact material: 0 - AgNi10 1 - AgCdO 2 - AgSnO ₂				
Contact form: 1 - Make (SPST-NO) 2 - Break (SPST-NC) 3 - Change-over (SPDT)				
Rated coil voltage:				

Dimensions and Terminals Layout in mm

Tolerance ± 0,1

Packing information

Relays supplied in re-usable and PVC free bar packing

Bar lenght: 435

Contents: 20 relays

Wiring diagram

Change-over

Break

Make