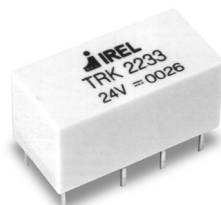


TRK 22 Miniature Signal Relay



- 0.2 W, 0.3 W, 0.55 W rated coilpower
- 3 A, 230 VAC, 220 VDC max. contact load
- Two change-over, twin cross contacts
- Ambient temperature up to +70°C
- Direct instalation on PCB
- Washable version Qc/2
- Extinguishable casing V-0

Technical data

Characteristics

- Relay type: TRK 2233 TRK 2243
- Rated Current: 2A and 3A
- Contact Material: 2A AgPd30, AuAg8
3A AgNi10, AuAg8
- Form: 2 change-over
- Contact Type: twin cross contacts
- Max. Operating Voltage: 230VAC, 220VDC
- Max. Switching Power: 120VA, 60W (see diagram)
- Min. Switching Load: 10 μ A, 10 mVDC
- Contact Resistance: $\leq 50\text{ m}\Omega$ - 10 mA 30 mVDC (New relay)
- Max. Operating Frequency:
1800 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: high sensitive-H abt. 0.2 W
sensitive-F abt. 0.3 W
standard abt. 0.55 W
- Max. Coil Temperature: 155°C
- Thermal Coil Resistance: high sensitive-H abt. 250 K / W
sensitive-F abt. 200 K / W
standard abt. 150 K / W
- Operate Voltage: high sensitive-H $U_{op} \leq 78\% U_n$
sensitive-F $U_{op} \leq 76\% U_n$
standard $U_{op} \leq 70\% U_n$
- Release Voltage: $U_{re} \geq 10\% U_n$
- Operative Range: class 1, IEC61810-1
- Test Voltage (1 min.): contact-coil $\geq 1\text{ kVrms}$ 50 Hz
contact-contact $\geq 0.75\text{ kVrms}$ 50 Hz
between contact systems $\geq 1.5\text{ kVrms}$ 50 Hz
- Impulse Voltage Test (1.2/50 μ s): contact-coil $\geq 2\text{ kVimp}$
- Operate Time at U_n : see diagram
- Release Time: abt. 3 ms
- Bouncing Time: abt. 3 ms make - abt. 8 ms break
- Insulation Resistance (500 VDC): $> 1000\text{ M}\Omega$
- Vibration Resistance (10–200Hz): 10 g_n
- Shock Resistance (11 ms): functional 10 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
- Relay Weight: abt. 5 g

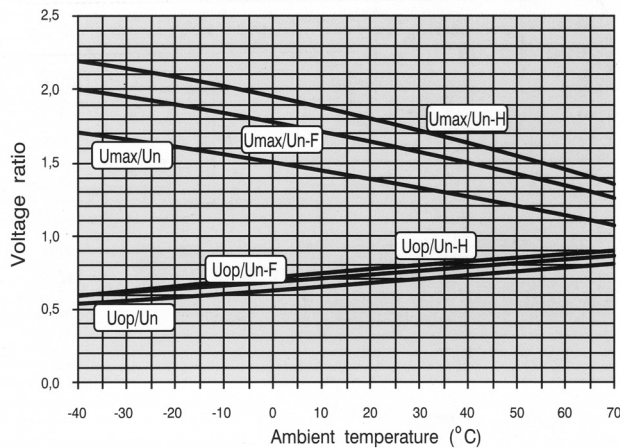
Coil data at 20 °C

Coil Rated Voltage	Coil Resistance	Operative Coil Voltage Range		
		Must Operate	Must Release	U _{MAX}
Un (V _{DC})	Rn(Ω) ± 10%	U _{op} ≤ (V _{DC})	U _{re} ≥ (V _{DC})	(V _{DC})
High sensitive version - 0.2 W				
H 3	45	2.3	0.3	5.4
H 5	125	3.9	0.5	9.0
H 6	180	4.6	0.6	10.8
H 9	405	7.0	0.9	16.1
H 12	720	9.3	1.2	21.5
H 24	2880	18.7	2.4	43.0
Sensitive version - 0.3 W				
F 3	30	2.3	0.3	4.9
F 5	82	3.8	0.5	8.2
F 6	120	4.5	0.6	9.8
F 9	270	6.8	0.9	14.7
F 12	480	9.1	1.2	19.6
F 24	1920	18.2	2.4	39.2
Standard version - 0.55 W				
3	19	2.1	0.3	4.2
5	45	3.5	0.5	7.0
6	67	4.2	0.6	8.4
9	170	6.3	0.9	12.6
12	280	8.4	1.2	16.7
18	670	12.6	1.8	25.1
24	1070	16.8	2.4	33.5
36	2300	25.2	3.6	50.2
48	4000	33.6	4.8	67.0

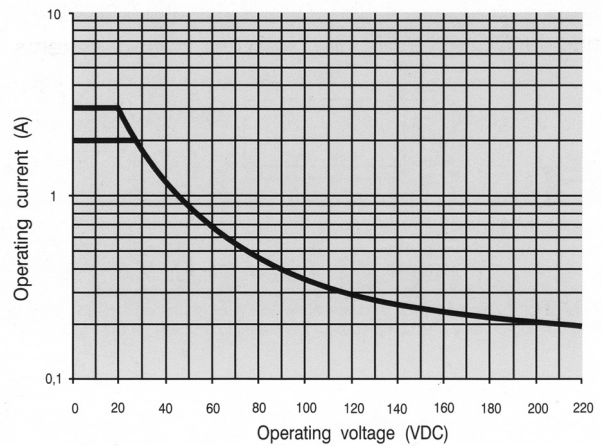
Ordering information

	TRK22	X	3	X	XX DC
Basic designation					
Contact material: 3 - AgPd30 + AuAg8 4 - AgNi10 + AuAg8					
Contact form: 3 - Two change over (DPDT)					
Coil version H high sensitive F sensitive - standard					
Rated coil voltage:					

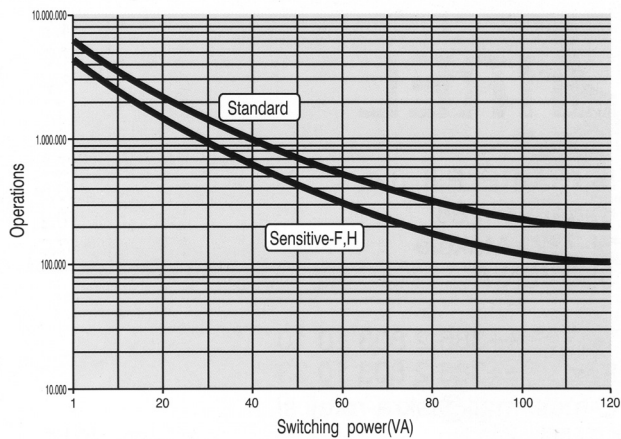
Operative coil voltage range



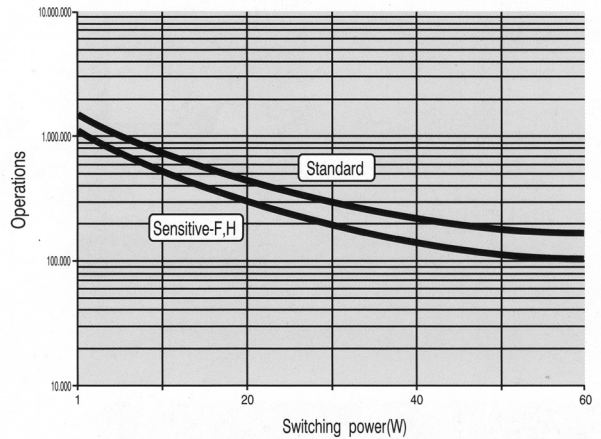
Max. switching capacity, resistive DC Load



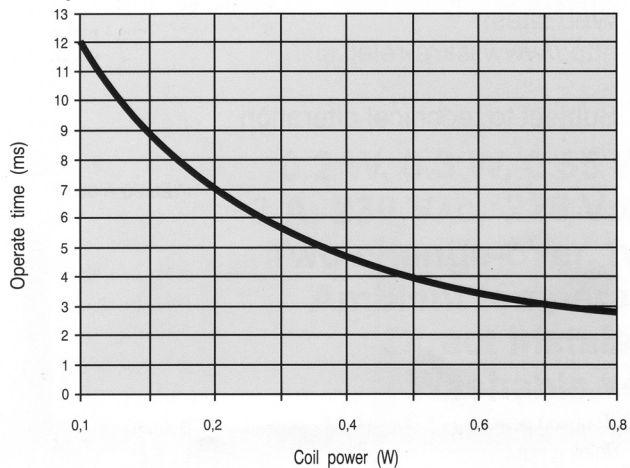
Electrical life, resistive AC Load



Electrical life, resistive AC Load



Max. operate time at U_n



Dimensions and Terminals Layout in mm

