

Miniature power relay TRK 10

Last Updated: November 25, 2004
Data subject to alteration!



200 mW rated power
6A, 250 VAC 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
Approvals: UL, VDE

Contact data

Form:	1Ch ange-over, 1M ake, 1Br eak	
Material:	AgCdO AgSnO ₂ ,	Ag Ni10
	by request with Au clad	
Rated current:	6A	5A
Max. operating voltage:	380V AC, 220 Vdc	
Max. switching power:	1500 VA, 144 W	1250 VA, 120 W
Min. switching load:	5 V _{DC} , 100 mA	
Contact resistance: (new relay)	≤ 100 mW (100 mA, 5 V _{DC})	
Max. operating frequency:	360op erations / h- ratedlo ad 36000op erations / h- min. load	
Capacitance cont. - cont.:	≤ 1.5 pF	
Mechanical life:	≥ 2x10 ⁷ operations	
Electrical life	≥ see diagram	

General coil data for energizing at 20°C

Rated power: abt. 200 mW
 Max coil temperature: 155°C
 Thermal resistance: abt. 155 K/W
 Operative range: class 1, IEC 61810-1
 Operate voltage (cold coil): U_{op} ≤ 78%U_n
 Release voltage: U_{re} ≥ 10 % U_n

Other data

Test voltage (1 min)
 contact - coil: ≥ 4k Vr ms, 50 Hz
 contact - contact: ≥ 1k Vr ms, 50Hz z
 Degree of pollution: 2, IEC 60664-1
 Overvoltage category: III, IEC 60664-1
 Creepage distances
 contact - coil: ≥ 5.5m m
 Clearances
 contact - coil: ≥ 4.5m m
 Impulse voltage test (1.2/50 μs)
 contact - coil: ≥ 5k Vimp
 Operate time at U_n: abt. 6 ms
 Release time: abt. 4 ms
 Bouncing time: abt. 2m s-make,
 abt. 10m s-brake

Insulation resistance (500 V_{DC}): > 1000 MW
 Vibration resistance (10-200Hz): 10 g_n, IEC 60068-2-6
 Shock resistance (11 ms)
 functional: 20g_n
 destructive: 100g_n

Ambient temperature
 for operating: -40°C to +85°C
 for storage: -40°C to +85°C
 Protection degree: IP 67, IEC 529
 Seal test: (1 min) Qc/2, IEC 60068-2-17
 Case extinguishing: V-0, UL94
 Mounting position: optional, 5mm between relays
 Relay weight: abt. 5 g

