

Miniature relay TRK 22

Last Updated: September 2, 2004
Data subject to alteration!



Small dimensions

Rated coil power 0.2 W, 0.3 W, 0.55 W

Max. contact current 2 A or 3 A

Ambient temperature up to +70°C

Extinguishable casing V-0

Direct instalation on PCB

Washable version Qc/2

Plastic bars packing

UL approval request

Contact data

Relay type	TRK2233	TRK2243
Contact material	AgPd30+AuAg8	AgNi10+AuAg8
Rated current	2 A	3 A
Form	2 Change - over	
Contact type	twin cross contacts	
Max. operating voltage	125 VAC, VDC	
Max. switching power	120 VA, 60 W	
Min. switching load	10mA, 10 mVDC	
Contact resistance	≤ 50 mW	
Test voltage (1min)	(10 mA, 30 mVDC) - new relay	
contact-coil:	≥ 1000 Vrms, 50 Hz	
contact-contact:	≥ 1500 Vrms, 50 Hz	
Capacitance cont. - cont.	≤ 1,5 pF	
Mechanical life	≥ 2 x 10 ⁷ operations	

Coil data

Coil rated voltage	Coil resistance at 20°C	Operative coil voltage range at 20°C	
		Must operate	U _{max}
U _n (VDC)	R _n (W ± 10%)	U _{op} ≤ (VDC)	(VDC)
High sensitive version - 0.2 W			
H 3	45	2.3	5.4
H 5	125	3.9	9.0
H 6	180	4.6	10.8
H 9	405	7.0	16.1
H 12	720	9.3	21.5
H 24	2880	18.7	43.0
Sensitive version - 0.3 W			
F 5	82	3.8	8.2
F 6	120	4.5	9.8
F 9	270	6.8	14.7
F 12	480	9.1	19.6
F 24	1920	18.2	39.2
Standard version - 0.55 W			
5	45	3.5	7.0
6	67	4.2	8.4
12	280	8.4	16.7
24	1070	16.8	33.5
48	4000	33.6	67.0

Coil data for energizing at 20°C

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} ≤ 78% U _n
sensitive - F	U _{op} ≤ 76% U _n
standard	U _{op} ≤ 70% U _n

Release voltage: U_{re} ≥ 10% U_n

Operative range: class 1, IEC 61810 - 1

Other data

Test voltage (1 min)	
contact - coil:	≥ 1 kVrms, 50 Hz
contact - contact:	≥ 0.75 kVrms, 50 Hz
between contact systems:	≥ 1.5 kVrms, 50 Hz
Impulse voltage test (1.2/50 ms)	
contact - coil:	≥ 2 kVimp
Operate time at U_n :	abt. 3 ms
Release time:	abt. 3 ms - make, abt. 8 ms - break
Bouncing time:	>1000 MW
Insulation resistance (500 V _{DC}):	10 g _n
Vibrations resistance (10 - 200 Hz):	10 g _n
Shock resistance (11 ms)	
functional:	10 g _n
destructive:	100 g _n
Ambient temperature	
for operating:	-40°C to +70°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
Cleaning:	recommended
Mounting position:	optional
Relay weight:	abt. 5 g



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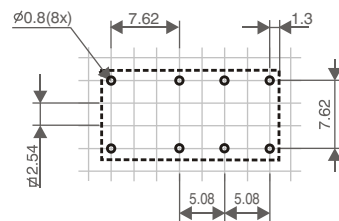
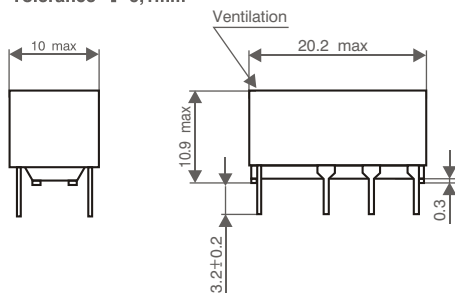
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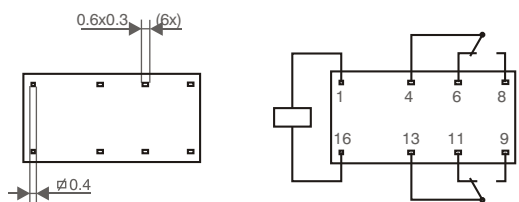
Subject to technical alteration

Dimensions and terminals layout

Tolerance $\pm 0,1\text{mm}$



Terminals side view



Agent: