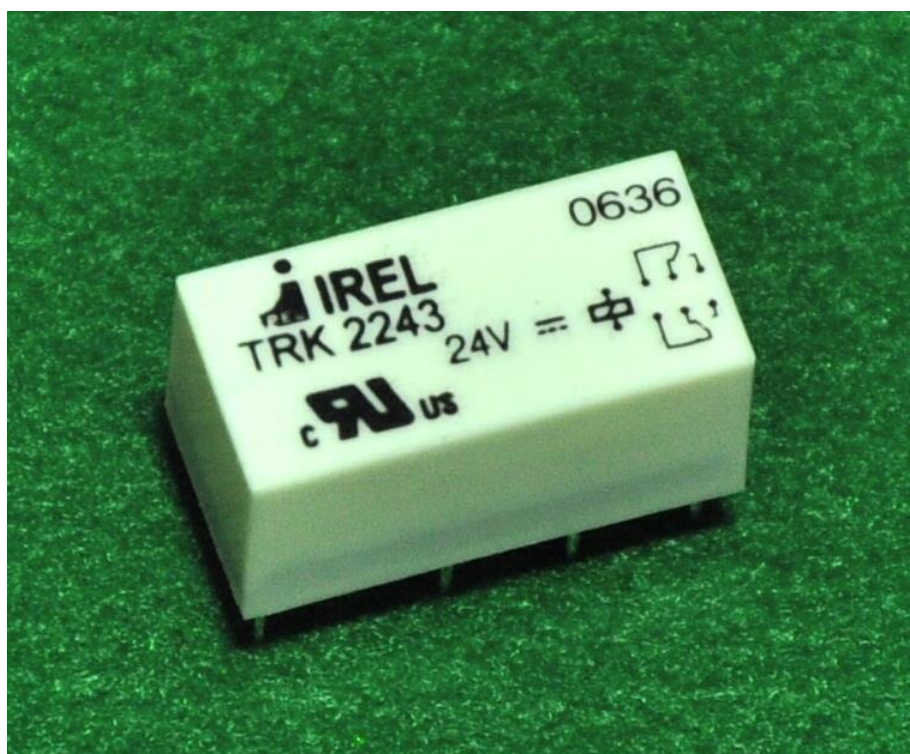




Miniature Signal Relay TRK 22



- Rated coil power 0.2 W, 0.3 W, 0.4 W, 0.55 W
- Max. contact load 3 A, 230 Vac, 220 Vdc
- Two change-over, twin cross contacts
- Direct instalation on PCB
- UL approval
- Ambient temperature up to +70°
- Washable version Qc/2
- Non-flammable material V-0
- Plastic bars packing

Technical data

Relay TRK 22 is a neutral, monostable, electromagnetic relay for DC coil energizing with two contact systems. Small dimensions and low self-heating of this relays enable high density of electronics components on PC board.

As a switching element with ability of galvanic separation it is designed to control medium power devices in telecommunication, data processing, computer peripherals, measuring equipment and for general purposes.

Contact data

Relay type	TRK2233	TRK2243
Contact form	2 Change-over	
Contact type	twin cross contacts	
Contact material	AgPd30 + AuAg8	AgNi10 + AuAg8
Rated current	2 A	3 A
Max. operating voltage	230 V _{ac} , 220 V _{dc}	
Max. switching power	120 VA, 60 W (see diagram)	
Min. switching load	10 mA, 10 mV _{dc} ,	
Contact resistance	≤ 50 mΩ (10 mA, 30mV _{dc}) - new relay	
Max. operating frequency	1800 / h - rated load 36000 / h - min. load	
Capacitance cont.-cont.	≤ 1,5 pF	
Mechanical life	≥ 2 X 10 ⁷ operations	
Electrical life	See diagram CO contact at 70°C	

Coil data for energizing at 20°C

Rated power:

high sensitive - H abt. 0.2 W
sensitive - F abt. 0.3 W
standard – S abt. 0.4 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: (cold coil)

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: 1, IEC61810 - 1

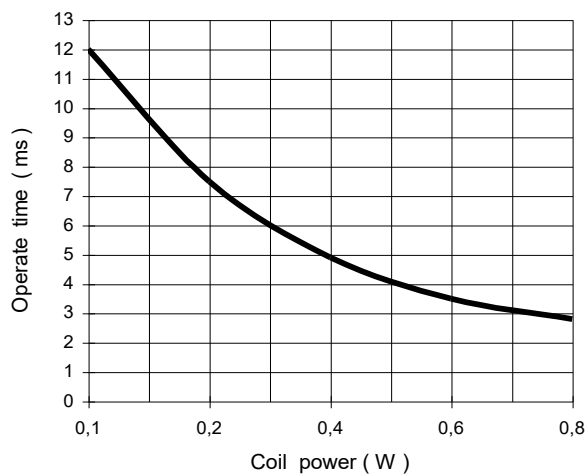
Coil data

Coil rated voltage	Coil resistance at 20°C	Operative coil voltage range at 20°C		
		Must operate	Must release	U _{max}
Un (Vdc)	Rn(Ω) ± 10%	U _{op} ≤ (Vdc)	U _{re} ≥ (Vdc)	(Vdc)
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 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	39.3
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
Standard version - 0.4 W				
S3	22.5	2.1	0.3	4.5
S5	62	3.5	0.5	7.5
S6	90	4.2	0.6	9
S9	203	6.3	0.9	13.5
S12	360	8.4	1.2	18
S18	810	12.6	1.8	27
S24	1440	16.8	2.4	36
S48	5760	33.6	4.8	72

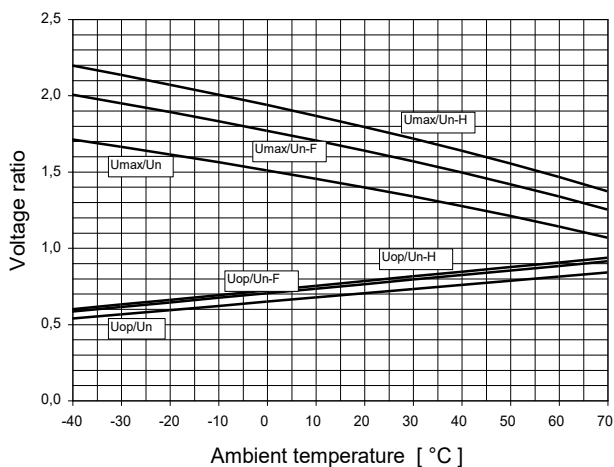
Other data

Test voltage (1 min.):	
contact - coil	≥ 1000 Vrms, 50 Hz
contact - contact	≥ 750 Vrms, 50 Hz
between contact systems	≥ 1500 Vrms, 50 Hz
Impulse voltage test (1,2/50 μs):	
contact - coil	≥ 2000 Vimp
Operate time at Un:	see diagram
Release time:	abt. 3 ms
Insulation resistance (500 VDC):	> 10 ³ MΩ
Vibrations resistance (10-200Hz):	10 gn
Shock resistance (11 ms)	
functional:	10 gn
destructive:	100 gn
Ambient temperature	
for operating:	- 40°C to + 70°C
for storage:	- 40°C to + 85°C
Protection degree:	IP 67, IEC 529
Seal test: (1min):	Qc/2, IEC 60068-2-17
Flammability class:	V-0, UL 94
Cleaning: ultrasonic cleaning over 30s is not recommended	
Mounting position:	optional
Relay weight:	abt. 5 g

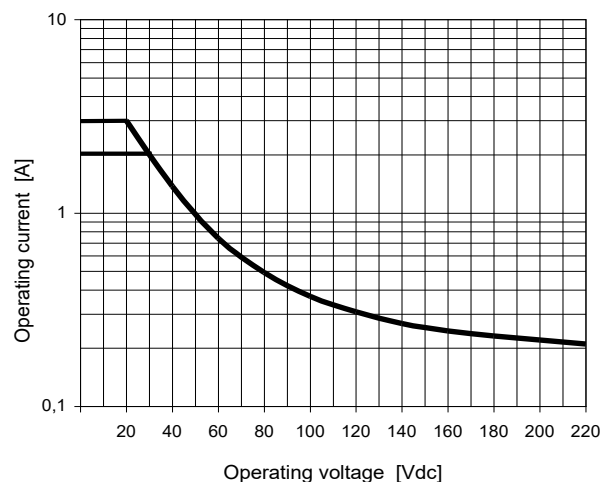
Max. operating time at Un



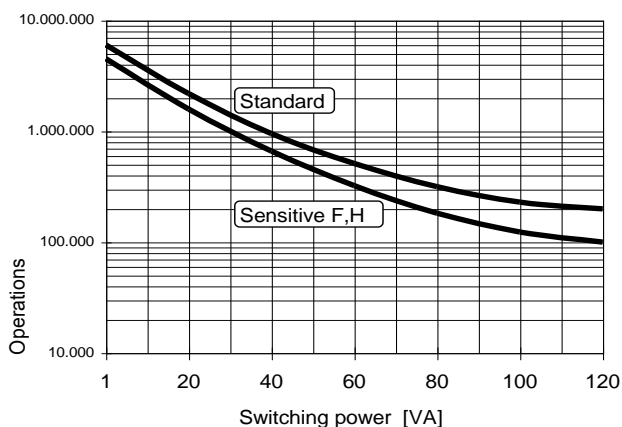
Operative coil voltage range



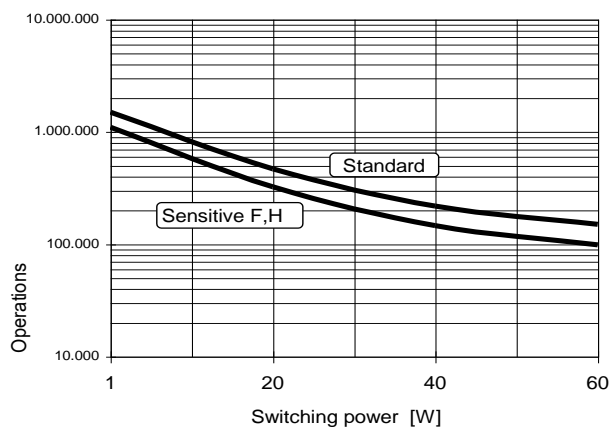
Max. switching capacity at resistive DC load



Electrical life at resistive AC load



Electrical life at resistive DC load

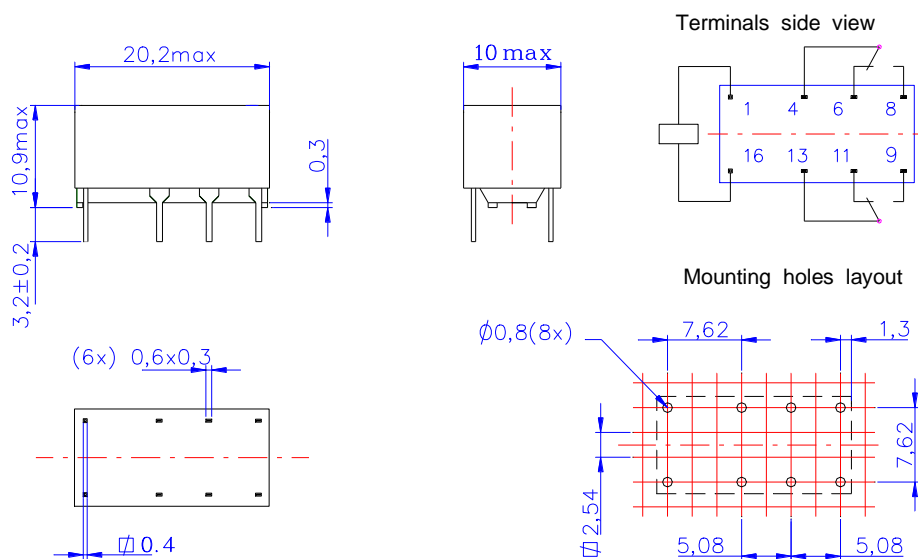


Ordering data

	TRK 22	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, S –standard, without -0.5W					
Coil rated voltage					

Dimensions and terminals layout

Tolerance ± 0.1



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