

**TRK 17  
Miniature Power  
Relay**



- Rated coil power 0.28 W, 0.33 W, 0.45 W
- Max. contact current 7A or 10A
- Ambient temperature up to +70°C
- Washable version Qc/2
- Extinguishable casing V-0
- Plastic bars packing
- UL, VDE, S approval

**Technical data**

**Characteristics**

- Contact Form: 1 Change - Over, 1 Make, 1Break
- Rated Current: 7A and 10A
- Contact Material: 7A AgNi10  
10A AgCdO (AgSnO by special request)
- Max. Operating Voltage: 230VAC, 220VDC (see diagram)
- Max. Switching Power: 7A 1750VA 170W - 10A 2500VA 240W
- Min. Switching Load: 100mA 5VDC
- Contact Resistance:  $\leq 100 \text{ m}\Omega$  - 5VDC 100 mA (New relay)
- Max. Operating Frequency:  
7A 600 operations/h rated load 36000 operations/h min. load  
10A 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: high sensitive-H abt. 0.28 W  
sensitive-F abt. 0.33 W  
sensitive-F abt. 0.57 W for 60 V  
standard abt. 0.45 W  
standard abt. 0.61 W for 60 V
- Max. Coil Temperature: 155°C
- Operate Voltage (cold coil): high sensitive-H  $U_{op} \leq 78\% U_n$   
sensitive-F  $U_{op} \leq 73\% U_n$   
standard  $U_{op} \leq 70\% U_n$
- Release Voltage:  $U_{re} \geq 10\% U_n$
- Thermal Coil Resistance: abt. 110 K / W
- Operative Range: class 1, IEC61810-1
- Test Voltage (1 min.): contact-coil  $\geq 4$  or 2 kVrms 50 Hz  
contact-contact  $\geq 1$  kVrms 50 Hz
- Rated Impulse Voltage (1,2/50  $\mu\text{s}$ ): contact-coil  $\geq 5 \text{ kV/mV}$
- Overvoltage Category: III, IEC 60664-1
- Degree of Pollution: 2, IEC 60664-1
- Operate Time at  $U_n$ : abt. 7 ms
- Release Time: abt. 3 ms
- Bouncing Time: abt. 2 ms make abt. 10 ms break
- Insulation Resistance (500 VDC):  $> 10^9 \text{ M}\Omega$
- 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. 8 g

**Coil data at 20 °C**

Coil Rated Voltage	Coil Resistance	Operative Coil Voltage Range		
		Must Operate	Must Release	$U_{MAX}$
$U_n (V_{DC})$	$R_n(\Omega) \pm 10\%$	$U_{op} \leq (V_{DC})$	$U_{re} \geq (V_{DC})$	$(V_{DC})$
<b>High sensitive version - 0.28 W</b>				
H 3	32	2.3	0.3	7
H 5	90	3.9	0.5	11
H 6	130	4.6	0.6	13
H 9	290	7.0	0.9	20
H 12	530	9.3	1.2	27
H 18	1160	14.0	1.8	40
H 24	2060	18.7	2.4	53
H 36	4630	28.1	3,6	80
H 48	8230	37.4	4.8	107

<b>Sensitive version - 0.33 W</b>				
F 3	27	2.2	0.3	6.3
F 5	80	3.7	0.5	10.5
F 6	110	4.4	0.6	12.6
F 9	250	6.6	0.9	18.9
F 12	440	8.8	1.2	25.3
F 18	1000	13.1	1.8	37.9
F 24	1780	17.5	2.4	50.6
F 48	6980	35.0	4.8	76.3
F 60	6250	43.8	6.0	95.5

<b>Standard version - 0.45 W</b>				
3	20	2.1	0.3	5.2
5	56	3.5	0.5	8.8
6	80	4.2	0.6	10.5
9	180	6.3	0.9	15.8
12	320	8.4	1.2	21.1
18	720	12.6	1.8	31.6
24	1280	16.8	2.4	42.2
36	2880	25.2	3.6	63.3
48	5120	33.6	4.8	72.4
60	5940	42.0	6.0	89.5

**Dimensions and Terminals Layout in mm**

Tolerance  $\pm 0,1$

Terminals side view

Mounting hole layout

Wiring diagram

Bar length: 435  
Contents: 25 relays

Bar length: 580  
Contents: 25 relays

**Packing information**  
Relays supplied in re-usable and PVC free bar packing

**Ordering information**

	<b>TRK17</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>XX V<sub>DC</sub></b>
Basic designation						
Contact material: 0 - AgNi10 (7A) 1 - AgCdO (10A) 2 - AgSnO (10A)						
Contact form: 1 - Make (NO) 2 - Break (NC) 3 - Change-over (SPDT)						
Test voltage between coil and contact K - 4kV, without 2kV						
Coil version: without- standard F - sensitive H - high sensitive						
Rated coil voltage:						

