



■ Features

- 15A switching capability
- Small footprint
- Sealed type available
- Conform to RoHS,ELV directive

■ Ordering Code

TRKF D — S — Z / 12VDC				
1	2	3	4	5
1. Relay Model	2. Coil Power: D=0.8W, L=0.64W			3. S: Sealed
4. Contact Form: Z: Form C, H: Form A			5. Coil Nominal Voltage: 6, 9, 12, 24VDC	

■ Coil Data (at 20°C)

Nominal Voltage(VDC)	6	9	12	24	0.64W
Coil Resistance($\Omega \pm 10\%$)		126	225	900	
Rated Current(mA)		71.4	53.3	26.7	
Max Operate Voltage(VDC)		5.85	7.8	15.6	
Min Release Voltage(VDC)		0.45	0.6	1.2	
Coil Resistance($\Omega \pm 10\%$)	45		180	720	0.8W
Rated Current(mA)	133.3		66.6	33.3	
Max Operate Voltage(VDC)	3.9		7.8	15.6	
Min Release Voltage(VDC)	0.3		0.6	1.2	
Max Applicable Voltage	130% of nominal voltage at 70°C, 170% of nominal voltage at 23°C				

■ Contact Data

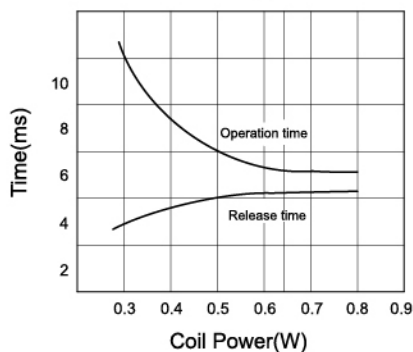
Contact Form	1H/1Z
Contact Material	Silver Alloy
Load	Resistive Load(COS ϕ =1)
Contact Ratings	1H: 20A 14VDC 1Z: 15A 14VDC
Max Switching Voltage	16VDC
Max Switching Current	20A
Max Switching Power	280W
Contact Resistance	100m Ω Max at 6VDC 1A
Life Expectancy	Electrical: 100,000 Operations (at 30 Operations/minute)
	Mechanical: 10,000,000 Operations (at 300 Operations/minute)

■ Characteristics Data

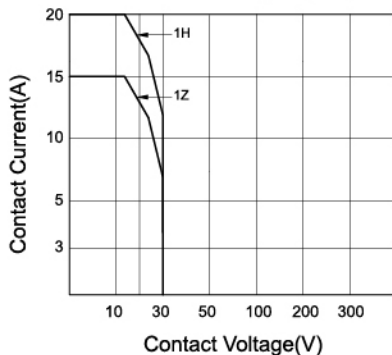
Insulation Resistance	100MΩMin at 500VDC
Dielectric Strength Between Open Contacts	500VAC (for one minute)
Between Contacts and Coil	1500VAC (for one minute)
Operate Time	15ms
Release Time	10ms
Temperature Range	-40°C to +85°C
Shock Resistance	Operating Extremes: 10G Damage Limits: 100G
Vibration Resistance	10-55Hz, 1.5mm
Max. Switching Frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr
Humidity	40-85%
Weight	Approx: 10g

■ Engineering Data

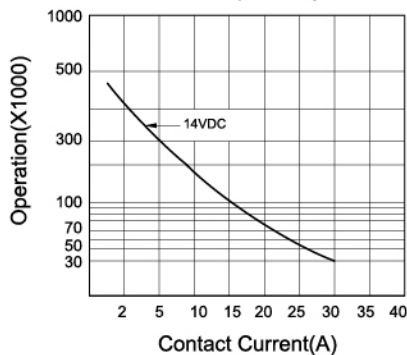
Timing



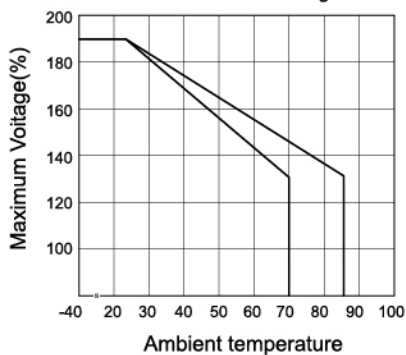
Contact Switching Capacity



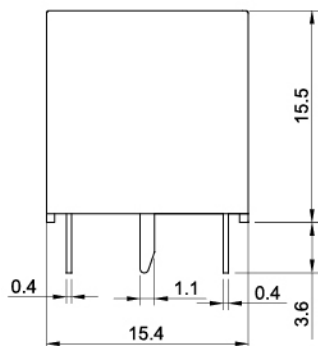
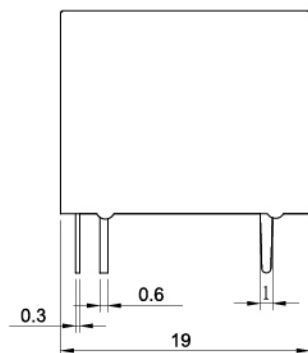
Life Expectancy



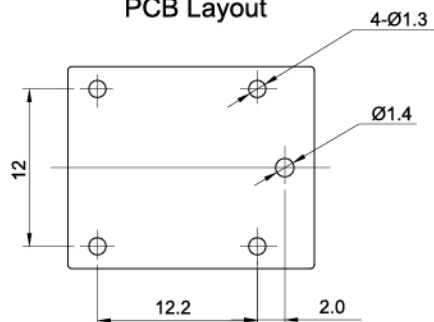
Ambient Temperature vs. Maximum Voltage



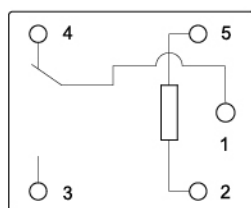
■ Overall and Mounting Dimensions



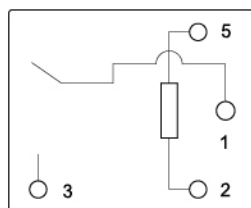
PCB Layout



Wiring Diagram



Form C



Form A

Remark:

- 1). In case the tolerance is not shown in outline dimension, the tolerance should be $\pm 0.2\text{mm}$ for outline dimension $\leq 1\text{mm}$; $\pm 0.3\text{mm}$ for outline dimension: $1\sim 5\text{mm}$ and $\pm 0.4\text{mm}$ for outline dimension $> 5\text{mm}$.
- 2). The tolerance without indication is always $\pm 0.1\text{mm}$ for the dimension of PCB layout.

Disclaimer:

These specifications are just for customers' reference and subject to change without notice.