



■ Features

- Max. switching current 20A
- 10A continuous rating 85°C
- Different contact form available
- Open or sealed cover available
- Conform to RoHS,ELV directive

■ Ordering Code

TRAW — S — Z / 12VDC			
1	2	3	4
1. Relay Model		2. S: Sealed, K: Open Type	
3. Contact Form: Z: Form 1C, H: Form 1A, SH: Form 1U, SZ: Form 1W		5. Coil Nominal Voltage: 6, 9, 12, 18, 24VDC	

■ Coil Data (at 20°C)

Nominal Voltage(VDC)	6	9	12	18	24	1.1W
Coil Resistance($\Omega \pm 10\%$)	28	70	130	290	520	
Rated Current(mA)	183.3	122.2	91.7	61.1	45.8	
Max Operate Voltage(VDC)	3.9	5.9	7.8	11.8	15.6	
Min Release Voltage(VDC)	0.3	0.45	0.6	0.9	1.2	
Max Applicable Voltage	130% of nominal voltage at 70°C, 170% of nominal voltage at 23°C					

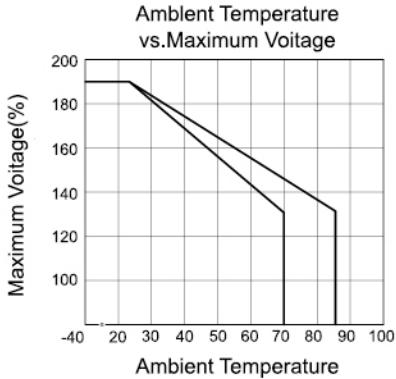
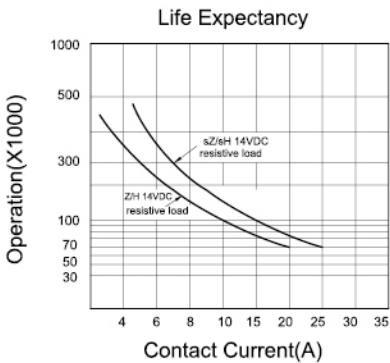
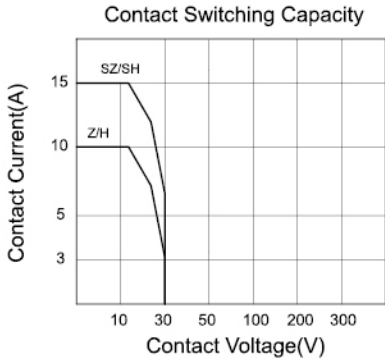
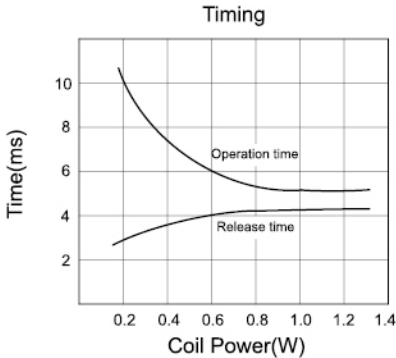
■ Contact Data

Contact Form	1H/1Z/SH/SZ
Contact Material	Silver Alloy
Load	Resistive Load($\cos\phi=1$)
Contact Ratings	1H,1Z: 10A 14VDC SH,SZ: 15A 14VDC
Max Switching Voltage	75VDC
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

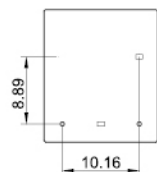
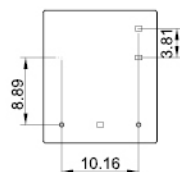
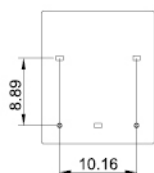
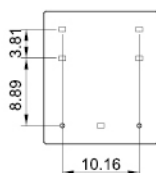
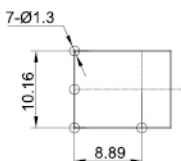
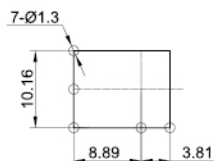
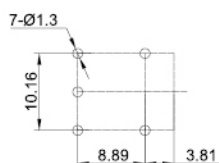
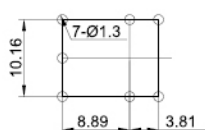
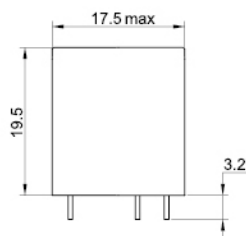
Insulation Resistance	100MΩMin at 500VDC
Dielectric Strength Between Open Contacts	1000VAC (for one minute)
Between Contacts and Coil	500VAC (for one minute)
Operate Time	5ms
Release Time	3ms
Temperature Range	-40°C to +85°C
Shock Resistance	Operating Extremes: 20G Damage Limits: 100G
Vibration Resistance	10-55Hz, 1.5mm
Max. Switching Frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr
Humidity	40-85%
Weight	Approx: 9.5g

■ Engineering Data

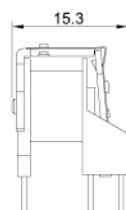
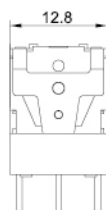


Overall and Mounting Dimensions

TRAW Sealed



TRAW Open

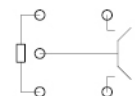


wiring Diagrams(Bottom View)



SZ

wiring Diagrams(Bottom View)



SH

wiring Diagrams(Bottom View)



1Z

wiring Diagrams(Bottom View)



1H

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.