## **FEATURES**

- Miniature size with lightweight.
- Low power consumption with various types of coil sensitivity for design flexibility.
- Plastic sealed type available for washing protective.
- Wide operation coil voltage range.
- Comply with RoHS and REACH regulations.

## **SPECIFICATIONS**

Contact Resistance	Max. 100mΩ at initial value. @100mA,6VDC			
Contact Capacity	2 Amps at 120VAC Cosφ=1 2 Amps at 24VDC L/R=0			
Operate Time	5m Sec. Max.			
Release Time	3m Sec. Max.			
Dielectric Strength	Between coil & Contact: 1000VAC at 50/60Hz for one minute Between Contacts: 400VAC at 50/60Hz for one minute			
Insulation Resistance	100MΩ Min. at 500VDC			

## **■COIL SPECIFICATION AT 20°**C

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max. Allowable Voltage (VDC)
ST-D1	3	120	25	Abt. 0.36	75% Max.	5% Min.	130%
	5	71.4	70				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1,600				
ST-T1	3	67	45	Abt. 0.20	75% Max.	5% Min.	130%
	5	40	125				
	6	33.3	180				
	9	22.5	400				
	12	16.7	720				
	24	8.3	2,880				
ST-L1	3	50.0	60	Abt. 0.15	80% Max.	5% Max.	130%
	5	29.9	167				
	6	25.0	240				
	9	16.7	540				
	12	12.5	960				
	24	6.3	3,800				

## **■PART NUMBER SYSTEM** ETR ST - SH - 1 05 L - Z: RoHS Compliant Insulation System: Nil: Class A F: Class F Contact Type: 1: Spot Welding Contact Coil Type: D: Standard DC Coil T: Medium Sensitivity DC Coil L: High Sensitivity DC Coil Coil Voltage: 03:3V, 05:5V, 06:6V 09:9V, 12:12V, 24:24V Number of Pole: 1: One Pole Type of Sealing: SS: Flow Solder Type SH: Plastic Sealed Type Model Name: ST Series Name: ETR

\*Marking without: "ETR" & "Z".

DIMENSIONS (≤5mm±0.2mm, >5mm±0.3mm, the tolerance of PCB thru hole:+0.1mm)

P.C.B Layout
Bottom View