



Main Feature

1. Very small size with light weight.
2. Various coil sensitivity types are available.
3. Plastic sealed type is available for washing protective.
4. Wide operation coil voltage range.

Contact Rating

Load Type	ST (D)	ST (L)	ST (T)
Rated Load (Resistive)	2A 120VAC	2A 120VAC	2A 120VAC
	2A 24VDC	2A 24VDC	2A 24VDC
Rated Carrying Current	2A	2A	2A
Max. Allowable Voltage	AC 125V	AC 125V	AC 125V
	DC 60V	DC 60V	DC 60V
Max. Allowable Current	2A	2A	2A
Max. Allowable Power Force	240VA	240VA	240VA
	48W	48W	48W
Min. Switching Load	DC 5V, 1mA	DC 5V, 1mA	DC 5V, 1mA
Contact Material	Ag +Au	Ag +Au	Ag +Au
Contact Form	SPDT	SPDT	SPDT

Application

Telecommunication , Office Equipment and Industrial Control, Application.

Performance (at Initial Value)

- Contact Resistance 100mΩ max. @100mA, 6VDC
- Operate Time..... 5 mSec. Max.
- Release Time 3 mSec. Max.
- Dielectric Strength :
Between Coil & Contact 1,000VAC at 50/60 Hz for one minute.
Between Contacts 400VAC at 50/60 Hz for one minute.
- Surge Strength 1,500V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :
Electrical 30 Cycles per Minute.
Mechanical 300 Cycles per Minute.

- Temperature Range-30~70°C
- Humidity Range35~85% RH.
- Coil Temperature Rise40°C Max.
- Vibration:
Endurance.....10 to 55 Hz dual amplitude width 1.5mm.
Error Operation10 to 55 Hz dual amplitude width 1.5mm.
- Shock:
Endurance1,000 m/S².
Error Operation100 m/S².
- Life Expectancy:
Mechanical10⁷ Operations at No Load condition.
Electrical10⁵ Operations at Rated Resistive Load.
- Weight.....About 2 g.

Safety Standard & Its File Number

- UL & C-UL.....E141060

Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
ST-D	3	120	25	Abt.0.36	75% Maximum	5% Minimum	130%
	5	71.4	70				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1,600				
ST-T	3	67	45	Abt.0.2	75% Maximum	5% Minimum	130%
	5	40	125				
	6	33.3	180				
	9	22.5	400				
	12	16.7	720				
	24	8.3	2,880				
ST-L	3	50	60	Abt.0.15	80% Maximum	5% Minimum	130%
	5	29.9	167				
	6	25.0	240				
	9	16.7	540				
	12	12.5	960				
	24	6.3	3,800				

Ordering Information

ST - SH - 1 12 D

Coil Type:

D: Standard DC Coil

T: Medium Sensitivity DC Type

L: High Sensitivity DC Type

Coil Voltage:

03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V

Number of Pole:

1: One Pole

Type of Sealing:

SS: RT II Flux Proofed Relays

SH: RT III Wash Tight Relays

Type:

ST

Classification

Model	ST		
Coil Type	Standard DC Coil	Medium Sensitivity DC Type	High Sensitivity DC Type
Flow Solder Type	ST-SS-1□□D	ST-SS-1□□T	ST-SS-1□□L
Plastic Sealed Type	ST-SH-1□□D	ST-SH-1□□T	ST-SH-1□□L

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

