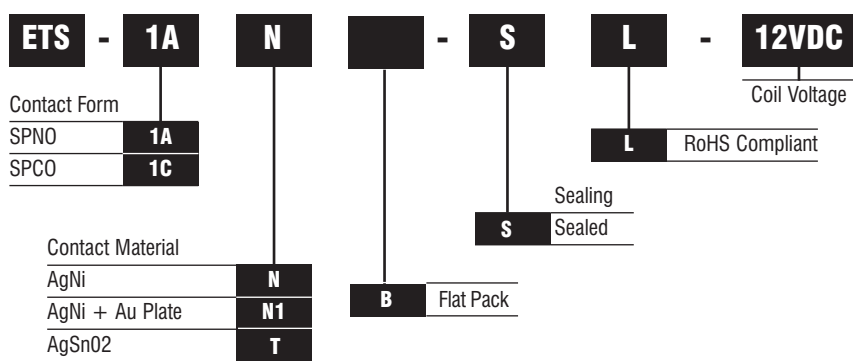


Subminiature Power Relay ETS



- Slim size (width 5mm)
- High breakdown voltage 4kV (between coil and contacts)
- Surge voltage up to 6kV (between coil and contacts)
- Clearance/creepage distance: 8mm
- High sensitive: 170mW
- 1 Form A and 1 Form C configurations

Options and ordering codes



Contact Data

| | |
|---------------------------------|--|
| Contact arrangement | 1A, 1C |
| Initial contact resistance Max. | 100mΩ (at 1A 6VDC) Gold plated: 30mΩ (at 1A 6VDC) |
| Contact material | AgNi |
| Contact Rating (Res. load) | 6A 250VAC / 30VDC |
| Max. switching voltage | 400VAC / 125VDC |
| Max. switching current | 6A |
| Max. switching power | 1500VA / 180W |
| Mechanical Life | 1x10 ⁷ ops |
| Electrical Life | NO / NC: 1x10 ⁴ ops (at 85°C) |

Characteristics

| | | |
|-------------------------------|-------------------------|----------------------|
| Initial Insulation Resistance | 1000MΩ @ 500VDC | |
| Dielectric Strength | Between coil & contact | 4000VAC 1min. |
| | Between open contacts | 1000VAC 1min. |
| Operate time (at nomi. Volt) | Max. 8ms | |
| Release time (at nomi. Volt) | Max. 4ms | |
| Shock Resistance | Functional | 50m/s ² |
| | Destructive | 1000m/s ² |
| Vibration Resistance | 10 to 55Hz 1mm DA | |
| Humidity | 5 to 85% RH | |
| Ambient Temp | -40°C to +85°C | |
| Termination | PCB | |
| Unit Weight | 5.4g | |
| Construction | Sealed IP67, Flux proof | |

Coil

| | |
|------------|--|
| Coil power | 5 to 24VDC: 170mW 48VDC, 60VDC: 210mW |
|------------|--|

Coil Data

| Coil Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Max allowable voltage (VDC 85°C) | Coil Resistance Ω ± 10% |
|------------------|---------------------|----------------------|----------------------------------|-------------------------|
| 5 | 3.75 | 0.25 | 7.5 | 147±10% |
| 6 | 4.50 | 0.30 | 9.0 | 212±10% |
| 9 | 6.75 | 0.45 | 13.5 | 476±10% |
| 12 | 9.00 | 0.60 | 18 | 848±10% |
| 18 | 13.5 | 0.90 | 27 | 1906±15% |
| 24 | 18.0 | 1.20 | 36 | 3390±15% |
| 48 | 36.0 | 2.40 | 72 | 10600±15% |
| 60 | 45.0 | 3.00 | 90 | 16600±15% |

Notes: 1) When require pick-up voltage=70% nominal voltage, special order allowed
2) When install 1 Form C type of ETS, please do not make the relay side with 5mm width down

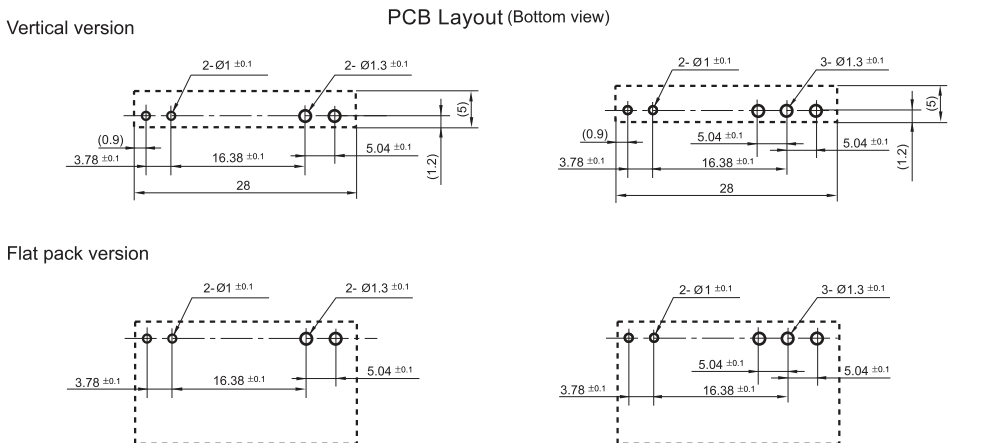
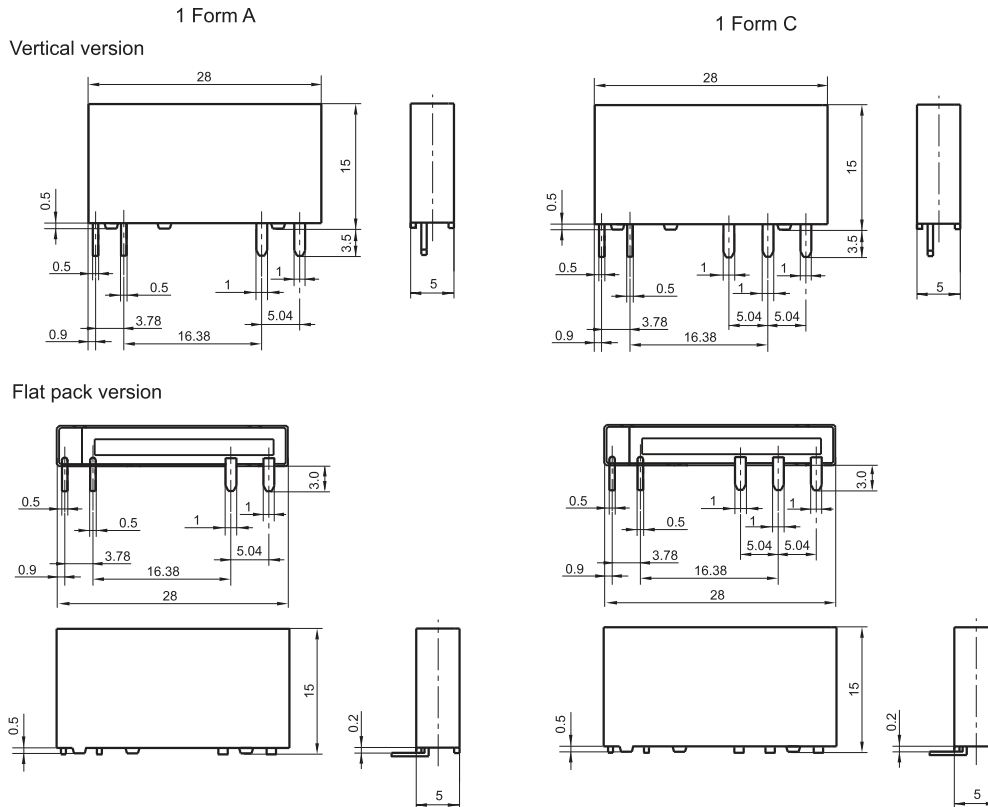
Safety Approval Ratings

| | |
|----------|--|
| UL & CUR | 6A 30VDC Resistive: 6A 277VAC Pilot duty: R300 |
|----------|--|

Subminiature Power Relay ETS continued



Outline dimensions (mm) Wiring diagram and PC Board layout



Characteristic Curve

