



c**Au**us E352915

ST1

12.5 x 7,5 x 10

10 RoHS compliant

Features

- Small sizes 12.5 x 7.5 x 10mm
- High sensitivity 150mW coil
- Fully sealed, immersion cleanable
- Switching and continous current 1A
- 1 form C contact configuration (1 CO)
- UL / CUL approved

Application Examples

- Security devices, alarm
- Office equipment
- Signal intercommunication system
- Measurement and controls

| Ordering Information | | | | |
|---------------------------|----------------------|------------------|----------------|--------------------------------------|
| <u>ST1</u> | $\frac{001}{2}$ | <u>C</u> 3 | $\frac{24}{4}$ | $\frac{\mathbf{W}}{5}$ |
| 1. Type: | ST1 | 4. Coil voltage: | · · | 3 = 3VDC; 5 = 5VDC; |
| 2. Contact configuration: | 001 = 1CO (1 form C) | | | 9 = 9VDC; 12 = 12VDC; 24 = 24VDC; |
| 3. Contact material: | C = AgNi (Au coated) | 5. Protection: | | W = Sealed washable |
| | | | | |

Contact Data

| Contact Arrangement | 1 form C (1CO) | | |
|-------------------------|-----------------------------------|--|--|
| Contact Material | AgNi + Au coated (Cd free) | | |
| Contact Rating | 0,5A, 125VAC / 1A, 24VDC | | |
| Max. Switching Voltage | 125VAC / 60VDC | | |
| Max. Switching Current | 1A | | |
| Min. Switching Capacity | 62VA / 30W | | |
| Contact Resistance | ≤ 100mΩ (by voltage drop 6VDC/1A) | | |
| Electrical endurance | 10 ⁵ | | |
| Mechanical endurance | 5 x 10 ⁸ | | |

Coil Rating (at 23°C)

| Rated Coil Voltage | Coil Resistance | Pull-in Voltage | Drop-out Voltage | Coil Power | Max. Applied Voltage |
|--------------------|-----------------|--------------------------------------------|--------------------------------------------|------------|---------------------------------------------|
| [VDC] | R[Ω] ± 10% | [VDC] | [VDC] | [mW] | [VDC] |
| 3 | 60 | | | | |
| 5 | 167 | Max.80% of nominal voltage (Initial) | Min.10% of nominal voltage (Initial) | 150 | Max.100% of nominal voltage (Initial) |
| 9 | 540 | | | | |
| 12 | 960 | | | | |
| 24 | 3840 | | | | |

Specification

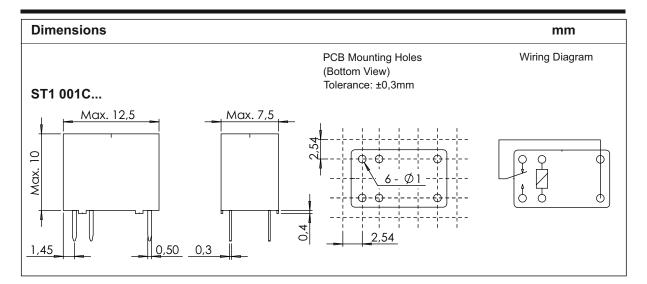
| Initial Dielectric Strength | between open contacts 400Vrms, 50/60Hz for 1 min | | |
|------------------------------------|--------------------------------------------------------------------|--|--|
| Illidal Dielectric Strength | between contact and coil 1000Vrms, 50/60Hz for 1 min | | |
| Environmental Protection | RTIII (Sealed washable) | | |
| Operate Time / Release Time | Max. 5ms / Max. 5ms | | |
| Vibration Resistance (Malfunction) | 10 to 55 to 10 Hz, 3.3mm double amplitude | | |
| Shock Resistance (Malfunction) | Energized 98,1m/s ² , De-energized 98,1m/s ² | | |
| Ambient Operating Temperature* | -30 to +70°C | | |
| Weight | 2,2g | | |

^{*1.} Without icing or condensation



Safety approvals

| Approvals | UL File No. E352915 | |
|-----------|------------------------------------------|--|
| ST1 | 0.5A / 125VAC; 1A / 30VDC; 0.3A / 60VDC; | |



Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of NF Forward GmbH & NF Forward USA Inc. are reserved.