



20 x 9,8 x 12

RoHS compliant

c  us E352915

ST2

| Features | Application Examples |
|---|---|
| <ul style="list-style-type: none"> ● Standard DIL (Dual In Line) relay ● Conform to FCC Part 68 : 1.5kV surge voltage ● Fully sealed, immersion cleanable ● Switching and continuous current 2A ● 2 form C contact configuration (2 CO) ● UL / CUL approved | <ul style="list-style-type: none"> ● Security devices, alarm ● Office equipment ● Signal intercommunication system ● Measurement and controls |

| Ordering Information | | | | |
|---------------------------|----------------------|------------------|--|---------------|
| <u>ST2</u> 1 | <u>002</u> 2 | <u>C</u> 3 | <u>24</u> 4 | <u>W</u> 5 |
| 1. Type: | ST2 | 4. Coil voltage: | 5 = 5VDC; 6 = 6VDC; 9 = 9VDC; 12 = 12VDC; 18 = 18VDC; 24 = 24VDC; 48 = 48VDC; | |
| 2. Contact configuration: | 002 = 2CO (2 form C) | 5. Protection: | Nil = Flux tight W = Sealed washable | |
| 3. Contact material: | C = AgNi (Au coated) | | | |

Contact Data

| | |
|-------------------------|----------------------------------|
| Contact Arrangement | 2 form C (CO) |
| Contact Material | AgNi + Au coated (Cd free) |
| Contact Rating | 0,6A, 125VAC / 2A, 30VDC |
| Max. Switching Voltage | 250VAC / 220VDC |
| Max. Switching Current | 2A |
| Min. Switching Capacity | 125VA / 60W |
| Contact Resistance | ≤ 50mΩ (by voltage drop 6VDC/1A) |
| Electrical endurance | 10 ⁵ |
| Mechanical endurance | 10 ⁸ |

Coil Rating (at 23°C)

| Rated Coil Voltage [VDC] | Coil Resistance R[Ω] ± 10% | Pull-in Voltage [VDC] | Drop-out Voltage [VDC] | Coil Power [mW] | Max. Applied Voltage [VDC] |
|-----------------------------|-------------------------------|--|---|--------------------|---|
| 5 | 167 | Max.70% of nominal voltage (Initial) | Min.5% of nominal voltage (Initial) | 150 | Max.100% of nominal voltage (Initial) |
| 6 | 240 | | | | |
| 9 | 540 | | | | |
| 12 | 960 | | | 200 | |
| 18 | 1620 | | | | |
| 24 | 2880 | | | 300 | |
| 48 | 7680 | | | | |

Specification

| | |
|--|--|
| Initial Dielectric Strength | between open contacts 1000Vrms, 50/60Hz for 1 min |
| | between contact and coil 1000Vrms, 50/60Hz for 1 min |
| | between contact circuits 1000Vrms, 50/60Hz for 1min |
| Surge Withstand Voltage (10/160µs, conform to FCC 68) | between open contacts 1500Vrms, 50/60Hz for 1 min |
| | between contact and coil 1500Vrms, 50/60Hz for 1 min |
| | between contact circuits 1500Vrms, 50/60Hz for 1min |
| Environmental Protection | RTII (Flux tight) / RTIII (Sealed) |
| Operate Time / Release Time | Max. 5ms / Max. 3ms |
| Vibration Resistance (Malfunction) | 10 to 55 to 10 Hz, 1.5mm double amplitude |
| Shock Resistance (Malfunction) | Energized 98,1m/s ² , De-energized 98,1m/s ² |

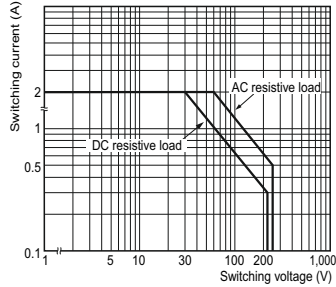
Specification (continued)

| | |
|--------------------------------|-------------------------------------|
| Ambient Operating Temperature* | -40 to +90°C (+80°C for 48VDC coil) |
| Weight | 4,5g |

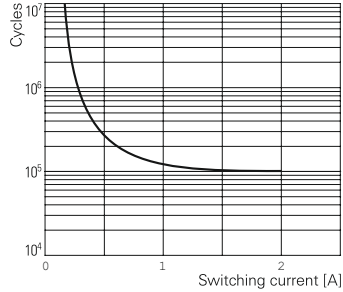
*1. Without icing or condensation

Engineering Data

Max. switching capacity



Electrical Endurance



Coil Temperature Rise



Safety approvals

| | |
|-----------|----------------------------|
| Approvals | UL File No. E352915 |
| ST2 | 2A / 30VDC; 0,6A / 125VAC; |

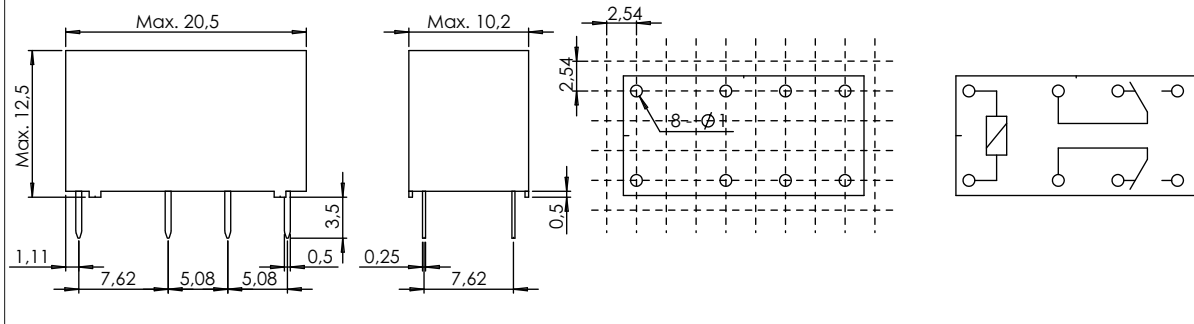
Dimensions

mm

ST2 002C...

PCB Mounting Holes
(Bottom View)
Tolerance: ±0,3mm

Wiring Diagram



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.