



12.5 x 7,5 x 10

RoHS compliant

c  us E352915

ST1

Features	Application Examples
<ul style="list-style-type: none"> ● Small sizes 12.5 x 7.5 x 10mm ● High sensitivity 150mW coil ● Fully sealed, immersion cleanable ● Switching and continuous current 1A ● 1 form C contact configuration (1 CO) ● UL / CUL approved 	<ul style="list-style-type: none"> ● Security devices, alarm ● Office equipment ● Signal intercommunication system ● Measurement and controls

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

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

Specification

Initial Dielectric Strength	between open contacts 400Vrms, 50/60Hz for 1 min
	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;

Dimensions	mm
<p>ST1 001C...</p>	<p>PCB Mounting Holes (Bottom View) Tolerance: $\pm 0,3\text{mm}$</p>

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.