## **NF FORWAR**



**ST3** 

c**Fl** us E352915

#### **Features**

- DIL Pitch Terminals & SMT "L" shaped terminals; High Sensitivity: 0.14W Nominal Power
   Conforms to FCC Part 68 1.5kV Surge and Dielectric 1000VAC
   Application for Telecommunication Equipment, Office Equipment, Security Alarm Systems, Measuring instruments, Medical Monitoring Equipment, Audio Visual Equipment, Flight Simulator, Sensor Control

Ordering Information					
ST3	002	<u>H</u>	<u>12</u>	<u>SM</u>	
1	2	3	4	5	
Type:     Contact arra	angement:	ST3 002 = 2C		4. Coil voltage:	5 = 5VDC; 6 = 6VDC; 9 = 9VDC; 12 = 12VDC; 24 = 24VDC;
3. Contact ma		H = AgPd + Au	ı Clad	5. Protection:	W = Sealed; SM = SMT Version;

#### **Contact Data**

O O I I La C L D	utu		
Contact Arrangement		2C (DPDT(B-M)) (Bifurd	cated Crossbar)
Contact Material		AgPd(Gold clad )	
Contact Rating (resistive) Max. Switching Power Max. Switching Voltage		1A,2A/30VDC; 0.5A/125VA	C
		60W 62.5VA	Min. Switching load: 0.01mA/10mV (Reference Value)
		220VDC 250VAC	Max. Switching Current:2A
Contact Resistance or Voltage drop		≤50mΩ	Item 4.12 of IEC 61810-7
Operation life	Electrical	1A/30VDC: 2×10 <sup>5</sup> 0.5A/125VAC: 1×10 <sup>5</sup>	Item 4.30 of IEC 61810-7
IIIC	Mechanical	10 <sup>8</sup>	Item 4.31 of IEC 61810-7

Relays previously tested or used above 10mA resistive at 6V maximum (DC or peak AC) open circuit are not recommended for subsequent use in low level applications.

#### **Coil Parameter**

Dash	Coil voltage VDC		Coil resistance	Pick up voltage VDC(max)	Release voltage VDC(min)	Coil	Operate	Release /Reset
numbers	Rated	Max.	Ω ±10%	(75%of rated voltage)	(10% of rated voltage)	power W	Time ms	Time ms
P-005	5	12.5	178	3.75	0.5	0.14		
P-006	6	15.0	257	4.50	0.6	0.14		
P-009	9	22.5	579	6.75	0.9	0.14	Approx.2	Approx.1
P-012	12	30.0	1028	9.00	1.2	0.14		
P-024	24	48.0	2880	18.0	2.4	0.20		

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay. 2. Pickup and release(reset) voltage are for test purposes only and are not to be used as design criteria.

#### **Characteristics**

Approx.0.4pF	Item 4.41 of IEC 61810-7
Approx.0.9pF	Item 4.41 of IEC 61810-7
Approx.0.2pF	Item 4.41 of IEC 61810-7
1000M Ω min (at 500VDC)	Item 7 of IEC 60255-5
1000VAC 1min	Item 6 of IEC 60255-5
1000VAC 1min	Item 6 of IEC 60255-5
1000VAC 1min	Item 6 of IEC 60255-5
1500V	FCC 68
1500V	FCC 68
2500V	FCC 68
	Approx.0.9pF Approx.0.2pF 1000MΩ min (at 500VDC)  1000VAC 1min 1000VAC 1min 1000VAC 1min 1500V 1500V

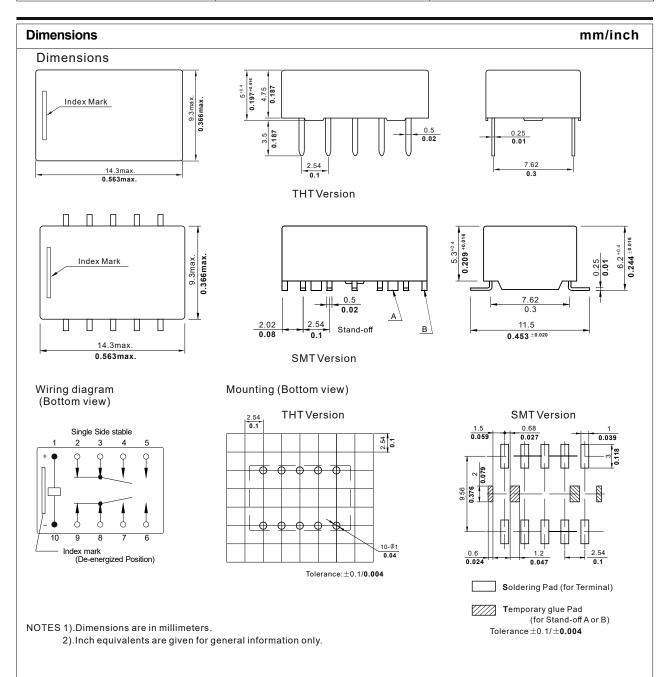


## **Characteristics (continued)**

Shock resistance	Functional:500m/s²11ms; Survival:1000 m/s²6ms	IEC 68-2-27 Test Ea	
Vibration resistance	10Hz~55Hz Double amplitude Functional: 3mm Survival:5mm	IEC 68-2-6 Test Fc	
Terminals strength $5N$ Solderability $235 \degree C \pm 2 \degree C$ $3s \pm 0.5s$ Temperature Range $-40 \degree 85 \degree C (-40 \degree F \sim 158 \degree F)$ MassApprox. 1.5g		IEC 68-2-21 Test Ua1	
		IEC68-2-20 Test Ta method 1	

#### Safety approvals

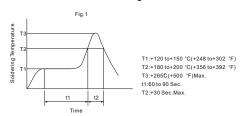
Safety approval	UL&CUR	
Load	1A,2A/30VDC, 0.5A/125VAC	





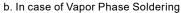
### **SOLDERING and MOUNTING RECOMMENDATIONS**

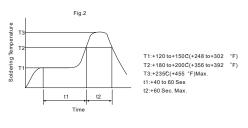
- 1. Conditions for Terminal Solderingby reflow soldering method
  - a. In case of Infrared Soldering

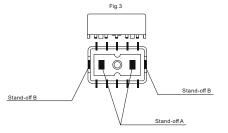


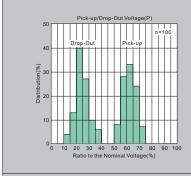
2. Usage of Stand-Off A & B in BaseArea

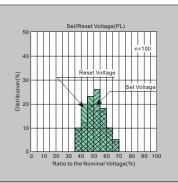
The Stand-Offs shown in the Fig. 3 are designed to Anchor Relays temporarily to PC Board with glue before Terminal Soldering.

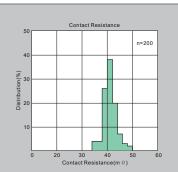


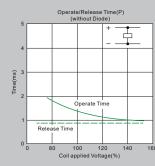


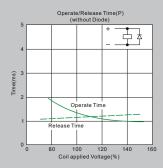


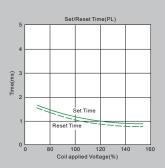


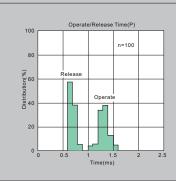


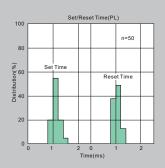


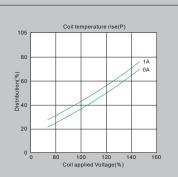




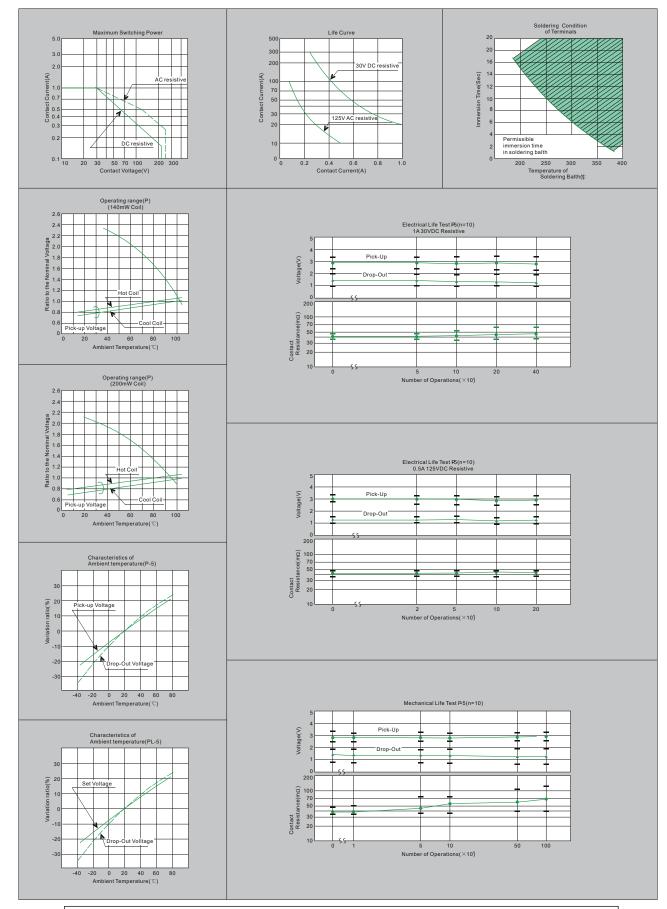








# **NF FORWARD**



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 inability for on 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. Care reserved.