

# Datasheet

## SPST-NO PCB Mount Non-Latching Relay, 24V dc

RS Stock 476-713



### Features

- Low height: 15.7 mm
- 16A switching capability
- 5kV dielectric strength (between coil and contacts)
- Creepage distance: 10mm
- Meeting VDE 0700, 0631 reinforce insulation
- Product in accordance to IEC 60335-1 available
- Sockets available
- Plastic sealed and flux proofed types available
- UL insulation system: Class F available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (29.0 x 12.7 x 15.7) mm

CONTACT DATA		
Contact arrangement	1A, 1B, 1C	2A, 2B, 2C
Contact resistance	100mΩ max.(at 1A 6VDC)	
Contact material	See ordering info.	
Contact rating (Res. load)	12A/16A 250VAC	8A 250VAC
Max. switching voltage	440VAC / 300VDC	
Max. switching current	12A / 16A	8A
Max. switching power	3000VA / 4000VA	2000VA
Mechanical endurance	1 x 10 <sup>7</sup> OPS	
Electrical endurance	1 x 10 <sup>5</sup> OPS (See approval reports for more details)	

COIL	
Coil power	Approx. 400mW

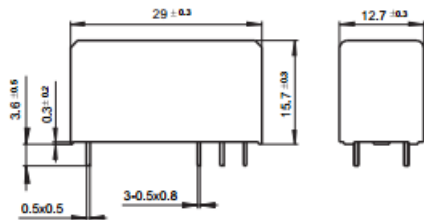
COIL DATA					at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC *	Coil Resistance Ω	
5	3.50	0.5	7.5	62 x (1±10%)	
6	4.20	0.6	9.0	90 x (1±10%)	
9	6.30	0.9	13.5	202 x (1±10%)	
12	8.40	1.2	18	360 x (1±10%)	
18	12.60	1.8	27	810 x (1±10%)	
24	16.80	2.4	36	1440 x (1±10%)	
48	33.60	4.8	72	5760 x (1±15%)	
60	42.00	6.0	90	7500 x (1±15%)	
110	77.00	11.0	165	25200 x (1±15%)	

**CHARACTERISTICS**

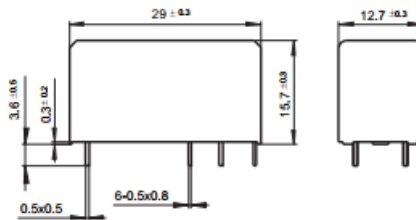
Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
	Between contact sets	2500VAC 1min
Surge voltage (between coil & contacts)		10kV (1.2 / 50μs)
Operate time (at nomi. volt.)		15ms max.
Release time (at nomi. volt.)		8ms max.
Temperature rise (at nomi. volt.)		55K max.
Shock resistance *	Functional	98m/s <sup>2</sup>
	Destructive	980m/s <sup>2</sup>
Vibration resistance *		10Hz to 150Hz 10g/5g
Humidity		5% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 13.5g
Construction		Plastic sealed, Flux proofed

**Outline Dimensions**

3.5mm Pinning (HF115F/ □□□ -□□ -□ -1 -□□)



5mm Pinning (HF115F/ □□□ -□□ -□ -2/3/4 -□□)

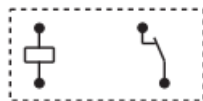


**Wiring Diagram (Bottom view)**

3.5/5mm Pinning, 1 Pole, 12A, HF115F/ □□□ -1 □ -□ -1/2-□□



1 Form A



1 Form B



1 Form C

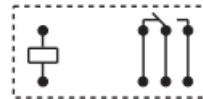
5mm Pinning, 1 Pole, 16A, HF115F/ □□□ -1 □ -□ -3-□□



1 Form A



1 Form B



1 Form C

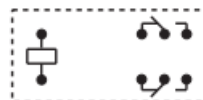
5mm Pinning, 2 Pole, 8A, HF115F/ □□□ -2 □ -□ -4-□□



2 Form A



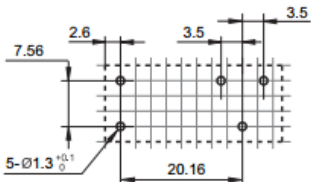
2 Form B



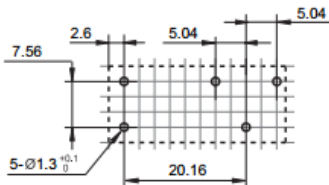
2 Form C

PCB Layout (Bottom view)

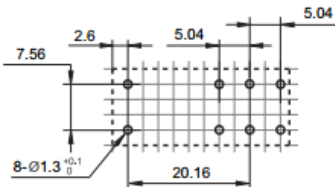
3.5mm 1Pole 12A



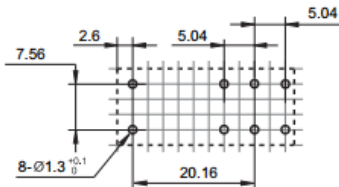
5mm 1Pole 12A



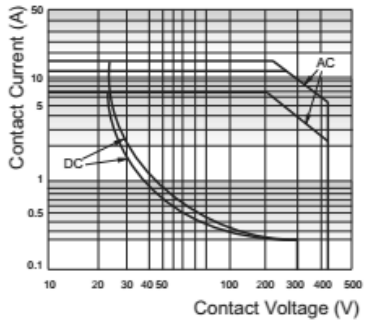
5mm 1Pole 16A



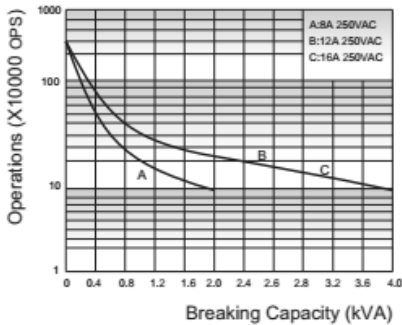
5mm 2Pole 8A



MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL OPERATING RANGE (DC) \*

