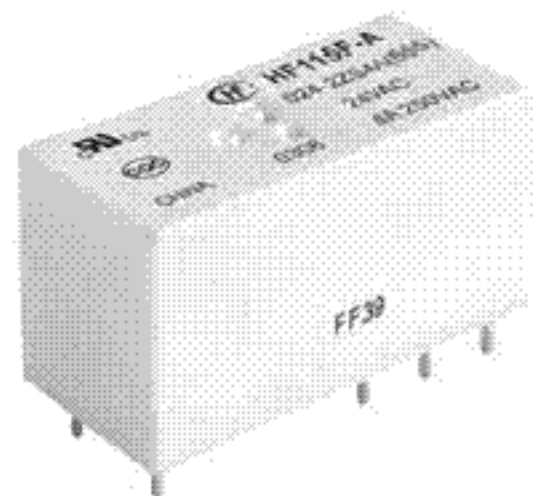




File No.:E134517



Pending



Features

- AC voltage coil type
- 16A switching capability
- 1 & 2 pole configurations
- 5KV dielectric strength (between coil and contacts)
- Low height: 15.7 mm
- Creepage distance: 10mm
- Sealed IP67 & flux proof types available
- VDE0435/0110, VDE0631/0700
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 29.0 x 12.7 x 15.7 mm

CONTACT DATA

Contact arrangement	1A, 1B, 1C	2A, 2B, 2C
Initial contact resistance Max.	100mΩ (at 1A 6VDC)	
Contact material	See ordering info.	
Contact rating (Res. load)	12A/16A 250VAC	8A 250VAC
Max. switching voltage	440VAC	
Max. switching current	16A	8A
Max. switching power	3000VA / 4000VA	2000VA
Mechanical life	1 x 10 ⁶ OPS	
Electrical life	5 x 10 ⁴ OPS	

COIL

Coil power	0.75VA
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COIL DATA

(50Hz)

Nominal Voltage (VAC)	Pick-up Voltage (VAC)	Drop-out Voltage (VAC)	Coil Current (mA) 20°C	Coil Resistance (Ω) 20°C
024	18.00	3.60	31.6	350 ± 10%
115	86.30	17.30	6.6	8100 ± 15%
230	172.50	34.50	3.2	32500 ± 15%

CHARACTERISTICS

Initial insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	5000VAC 1min.
	Between open contacts	1000VAC 1min.
	Between contact sets	2500VAC 1min.
Temperature rise (at nomi. volt.)	65°C	
Shock resistance	Functional	100m/s ²
	Destructive	1000m/s ²
Vibration resistance	10 to 150 Hz 10g/5g	
Humidity	35 to 85% RH	
Ambient temperature	-40°C to +70°C	
Termination	PCB	
Unit weight	13.5g	
Construction	Sealed IP67; Flux proof	

SAFETY APPROVAL RATINGS

UL&CUR	12A 250VAC
	16A 250VAC
	8A 250VAC
VDE (Pending)	12A 250VAC
	16A 250VAC
	8A 250VAC

ORDERING INFORMATION

HF115F-A / 024 1H S 1 A F XXX

Type

Coil voltage 24VAC, 115VAC, 230VAC

Contact arrangement 1H: 1 Form A 1D: 1 Form B 1Z: 1 Form C
2H: 2 Form A 2D: 2 Form B 2Z: 2 Form C

Construction S: Sealed IP67 Nil: Flux proof

Version 1: 3.5mm 1 pole 12A 2: 5.0mm 1 pole 12A
3: 5.0mm 1 pole 16A 4: 5.0mm 2 pole 8A

Contact material A: AgSnO₂ B: AgNi Nil: AgCdO

Insulation standard F: Class F

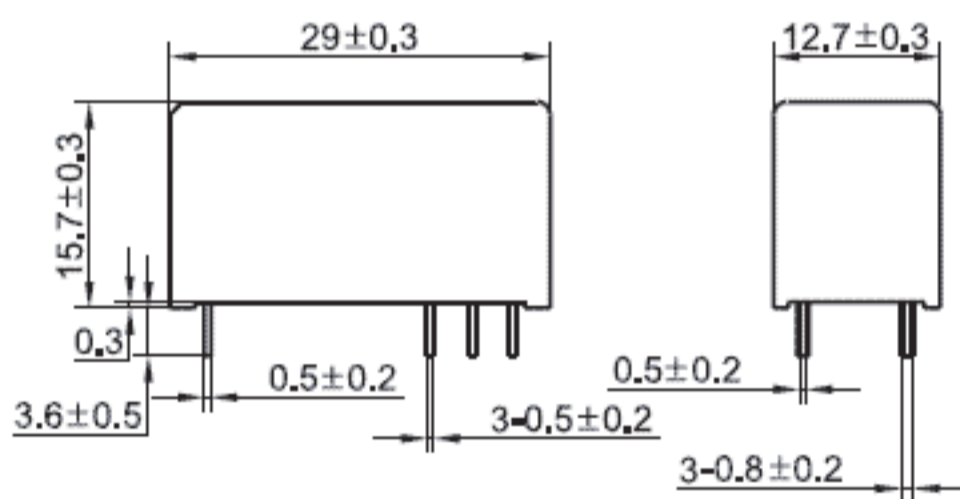
Customer special code (Only for special requirements) e.g. 551 stands for RoHS compliant (Cadmium containing contacts)
555 stands for RoHS compliant (Cadmium-free contacts)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

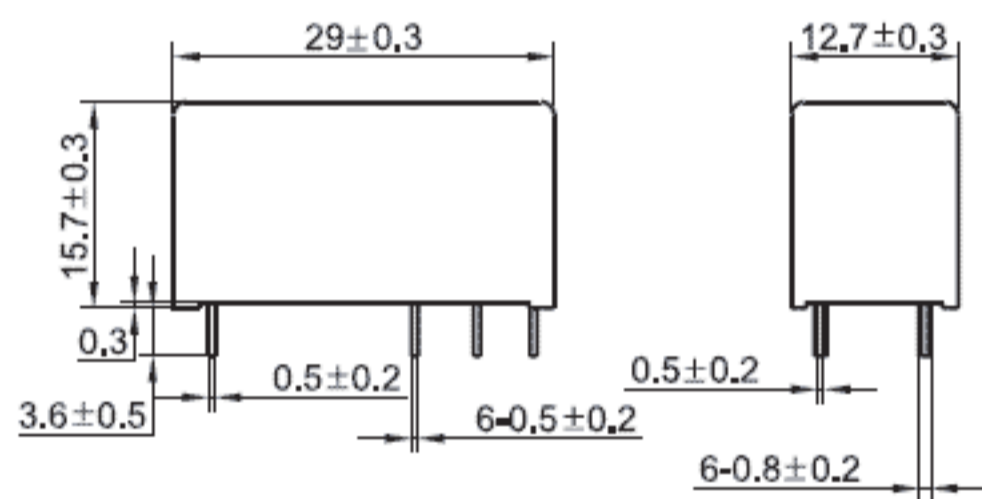
Unit: mm

Outline Dimensions

3.5mm Pinning (HF115F-A/□□□-□□-□-1)



5mm Pinning (HF115F-A/□□□-□□-□-2/3/4)

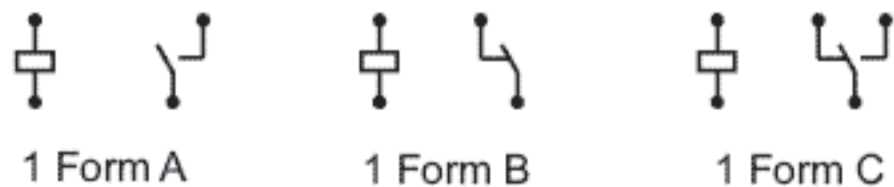


Wiring Diagram (Bottom view)

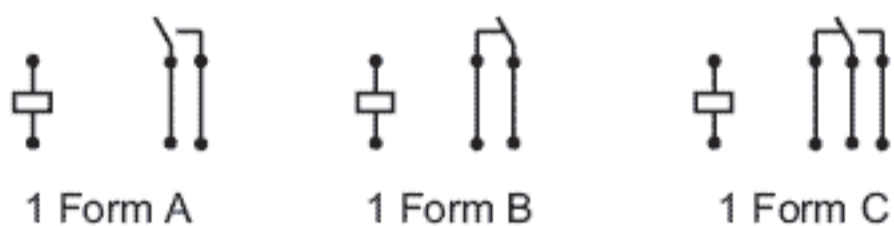
PCB Layout

(T=2.52±0.02mm)

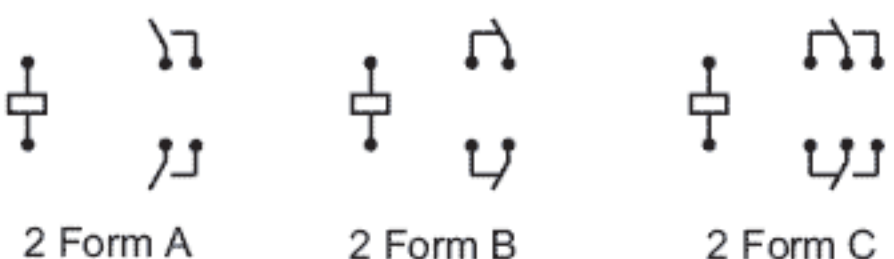
HF115F-A/ □□□-□□-□-1/2, 3.5/5mm Pinning, 1 Pole, 12A



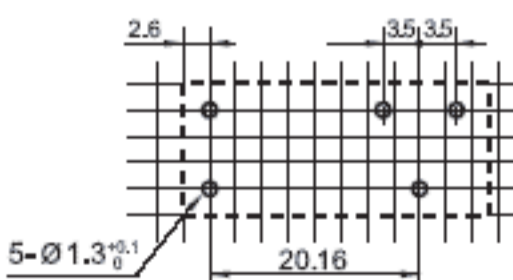
HF115F-A/ □□□-□□-□-3, 5mm Pinning, 1 Pole, 16A



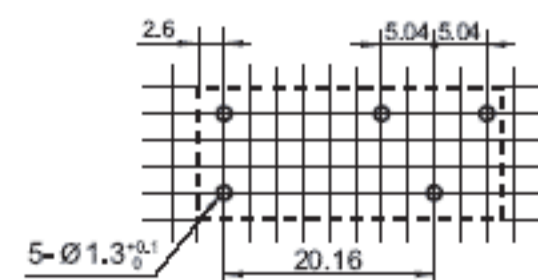
HF115F-A/ □□□-□□-□-4, 5mm Pinning, 2 Pole, 8A



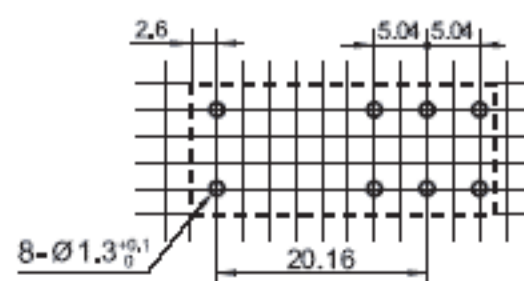
3.5mm 1 Pole 12A



5mm 1 Pole 12A



5mm 1 Pole 16A



5mm 2 Pole 8A

