SAFETY APPROVAL RATINGS

VDE

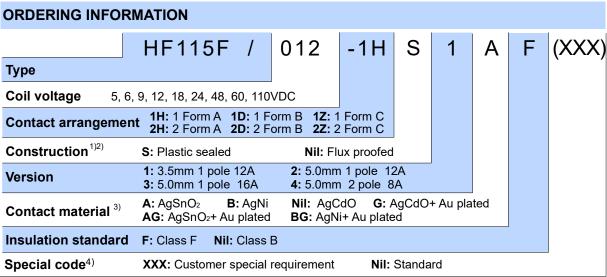
| Contact material | Specifications | Ratings | Ambient Temperature |
|--------------------|-----------------------------|-------------------------------|------------------------|
| AgCdO | HF115F2(H;Z)(S)4(G)(F) | 8A 250VAC | at 70°C |
| | HF115F1H(S)(1;2)(G)(F) | 12A 250VAC | at 70°C |
| | | 10A 250VAC | at 70°C |
| | HF115F1Z(S)(1;2)(G)(F) | 12A 250VAC | at 70°C |
| | HF115F1H(S)3(G)(F) | 16A 250VAC | at 70°C |
| | | 10A 250VAC | at 70°C |
| | | 9A 250VAC COSØ =0.4 | at 70°C |
| | HF115F1Z(S)3(G)(F) | 16A 250VAC | at 70°C |
| | | 9A 250VAC cosø =0.4 | at 70°C |
| AgNi | HF115F2(H;Z)(S)4B(G)(F) | 5A 400VAC | at 85°C |
| | | 8A 250VAC | at 85°C |
| | HF115F1H(S)(1;2)B(G)(F) | 12A 250VAC | at 85°C |
| | HF115F1Z(S)(1;2)B(G)(F) | 12A 250VAC | at 85°C |
| | HF115F1H(S)3B(G)(F) | 16A 250VAC | at 85°C |
| | | 9A 250VAC COSØ =0.4 | at 70°C |
| | HF115F1Z(S)3B(G)(F) | 16A 250VAC (NO only) | at 85°C |
| | | 12A 250VAC | at 85°C |
| | | 9A 250VAC COSØ =0.4 (NO only) | at 70°C |
| | | 10(4)A 250VAC (NO only) | at 65°C |
| | | 12(2)A 250VAC (NO only) | at 65°C |
| AgSnO ₂ | HF115F2(H;Z)(S)4A(G)(F) | 8A 250VAC | at 85°C |
| | HF115F1(H;Z)(S)(1;2)A(G)(F) | 12A 250VAC | at 85°C |
| | HF115F1H(S)3A(G)(F) | 16A 250VAC | at 85°C |
| | | 9A 250VAC COSØ =0.4 | at 70°C |
| | HF115F1Z(S)3A(G)(F) | 16A 250VAC (NO only) | at 85°C |
| | | 9A 250VAC COSØ =0.4 (NO only) | at 70°C |

UL/CUL

| | 12A 277VAC | |
|--------------------------------------|--------------------|--|
| Version 1 or 2 (AgCdO) | 1/2HP 250VAC | |
| | 1/3HP 125VAC | |
| | 12A / 277VAC | |
| Version 1 or 2 (AgSnO ₂) | B300 | |
| | R300 | |
| Version 1 or 2 (AgNi) | 12A 277VAC | |
| | 16A 277 VAC | |
| | 9A 250VAC at 105°C | |
| Version 3 (AgCdO) | 1HP 250VAC | |
| | 1/2HP 125VAC | |
| | TV-5 125VAC | |

| | 16A 277 VAC |
|---------------------------------|--------------------|
| | 1/3HP 125VAC |
| Version 3 (AgSnO ₂) | 1/2HP 250VAC |
| | B300 |
| | R300 |
| Version 3 (AgNi) | 16A 277VAC |
| | 5FLA, 30LRA 250VAC |
| | 10A 250VAC |
| Version 4 (AgCdO) | 8A 277VAC |
| version i (rigodo) | 1/2HP 250VAC |
| | 1/4HP 125VAC |
| Version 4 (AgSnO ₂) | 8A 277VAC |
| | 8A 277VAC |
| Version 4 (AgNi) | 10A 250VAC |
| | • |

Notes: 1) All values unspecified are at room temperature.
2) Only typical loads are listed above. Other load specifications can be available upon request.



Notes: 1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S, SO₂, NO₂, dust, etc.).

We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc).

- 2) Contact is recommend for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB
- 3) For gold plated type, the min. switching current and min. switching voltage is 10mA 5VDC.
- The customer special requirement express as special code after evaluating by Hongfa. e.g. (335) stands for product in accordance to IEC 60335-1 (GWT); e.g. (253) stands for Reflow soldering version, for 1 pole type.
 Two packing methods available: plastic tray package, tube package, Standard tube packing length is 616mm. Any special requirement
- 5) Two packing methods available: plastic tray package, tube package, Standard tube packing length is 616mm. Any special requirement needed, please contact us for more details.
- 6) For products that should meet the explosion-proof requirements of "IEC 60079 series", please note [Ex] after the specification while placing orders. Not all products have explosion-proof certification, so please contact us if necessary, in order to select the suitable products.

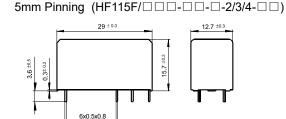
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions

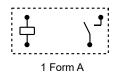
3.5mm Pinning (HF115F/ \square \square - \square - \square -1- \square)

29 ± 0.3 12.7 = 0.3 12.7 = 0.3 12.7 = 0.3 0.5x0.5

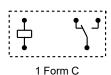


Wiring Diagram (Bottom view)

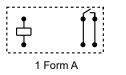
3.5/5mm Pinning, 1 Pole, 12A, HF115F/□□□-1□-□-1/2-□□

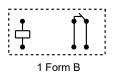


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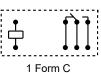


5mm Pinning, 1 Pole, 16A, HF115F/□□□-1□-□-3-□□

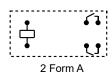


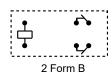


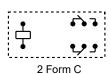
1 Form B



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

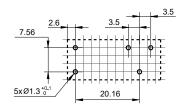




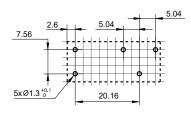


PCB Layout (Bottom view)

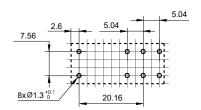
3.5mm 1Pole 12A



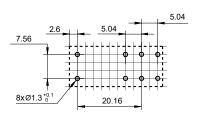
5mm 1Pole 12A



5mm 1Pole 16A



5mm 2Pole 8A

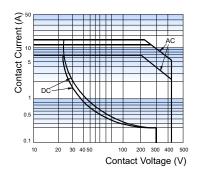


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be ±0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

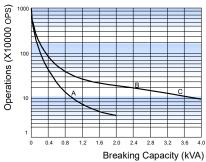
- 2) The tolerance without indicating for PCB layout is always ±0.1mm.
- 3) The width of the gridding is 2.52mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



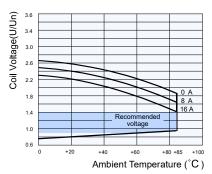
ENDURANCE CURVE



Remark:

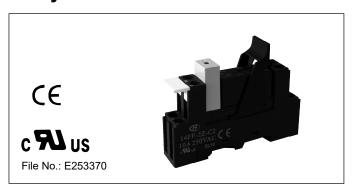
- 1. Curve A: 2H4B type Curve B: 1H1B type(or 1H2B type) Curve C: 1H3B type
- Test conditions:
 NO, Resistive load, 250VAC,
 Flux proofed, Room temp., 1s on 9s off.

COIL OPERATING RANGE (DC) *



- Notes: * The use of a relay with an energising voltage other than the rated coil voltage may lead to reduced electrical life.
 - An energising voltage over the abver range may damage the insulation of relay coil.

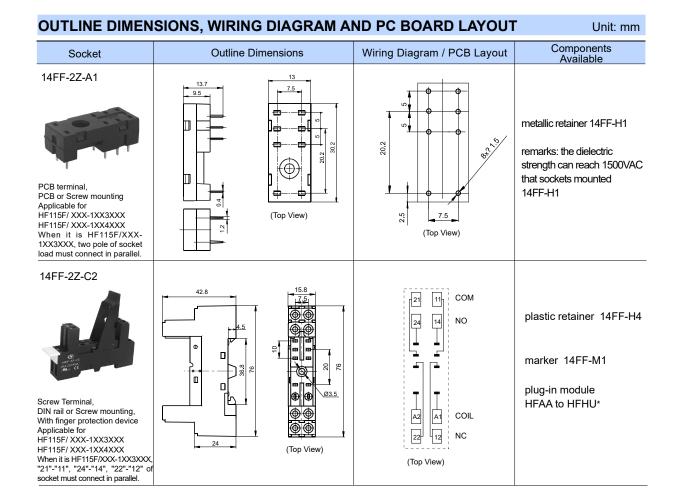
Relay Sockets



Features

- The insulation resistance is 1000MΩ
- Three mounting types are available: PCB, screw mounting and DIN rail mounting.
- With finger protection device
- Many kinds of plug-in modules are available with the function of energizing indication and wiring protection.
- Environmental friendly product (RoHS compliant)

CHARACTERISTICS Ambient Temperature Dielectric Strength Nominal Nominal Screw Torque Wire Strip Length Type Unit weight Voltage Current 14FF-2Z-A1 250VAC 10A -40 °C to 70 °C 5000VAC Approx. 3g 14FF-2Z-C2 250VAC 10A -40 °C to 70 °C 5000VAC 7mm Approx.39g 0.6N · m Approx.45g 14FF-2Z-C3 250VAC 10A -40 °C to 70°C 5000VAC 0.6N · m 7mm Approx.42g 14FF-2Z-C4 250VAC 10A -40 °C to 70 °C 5000VAC 9mm



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm Components Available Socket **Outline Dimensions** Wiring Diagram / PCB Layout 14FF-2Z-C3 12 NC plastic retainer 14FF-H4 11 24.2 marker 14FF-M1 0 plug-in module HFAA to HFHU* DIN rail or Screw mounting, With finger protection device COIL Applicable for HF115F/ XXX-1XX3XXX HF115F/ XXX-1XX4XXX When it is HF115F/XXX-1XX3XXX (Top View) (Top View) "21"-"11", "24"-"14", "22"-"12" of socket must connect in parallel. 14FF-2Z-C4 44.7 15.8 8888 СОМ 21 11 14 NO 24 plastic retainer 14FF-H4 3000 3000 12 NC 22 marker 14FF-M1 plug-in module Spring-loaded terminal DIN rail mounting HFAA to HFHU* DIN rall mounting With finger protection device Applicable for HF115F/ XXX-1XX3XXX HF115F/ XXX-1XX4XXX When it is HF115F/XXX-1XX3XXX, COIL A2 Α1 9898 "21"-"11", "24"-"14", "22"-"12" of socke (Top View) (Top View) must connect in parallel.

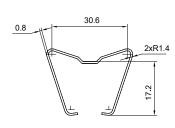
Notes: * Please refer to the product datasheet if plug-in module is required.

DIMENSION OF RELATED COMPONENT (AVAILABLE)

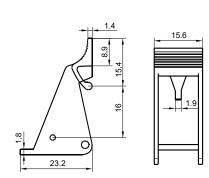
Unit: mm

Retainer

14FF-H1 (Metallic retainer)

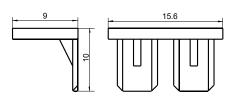


14FF-H4 (Plastic retainer)



Marker





Things to be noticed when selecting sockets:

- 1. Please choose suitable relay socket according to the actual mounting environment, relay contact poles and terminal layout. If there is any query on selection, please contact Hongfa for the technical service.
- 2. Socket which can be mounted with markers is furnished with a marker; as for other related components, they should be selected separately. Please do give clear indication of the types of relay sockets and related components you choose while placing order.
- 3. The above is only an example of typical socket and related component type which is suitable to HF115F relay. If you have any special requirements, please contact us.
- 4. Main outline dimension(L, W, H) \geqslant 50mm, tolerance should be \pm 1mm; outline dimension >20mm and <50mm, tolerance should be \pm 0.5mm; outline dimension \leq 20mm, tolerance should be \pm 0.3mm.
- 5. DIN rail mounting: recommend to use standard rail 35×7.5×1mm, 35×15×1mm.

Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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