

HF115FP-AS

RELAY MODULE

CE

cULus

File No.:
E253370(Socket)
E133481(Relay)



File No.:
116934(Relay)



Features

- 5000VAC insulation(I/O),8mmcreepage distance, 1000MΩ insulation resistance
- DIN rail , PCB mounting type available
- Extremely narrow (only15.8mm)
- Products with finger protection are available
- Ensure secure retention and easy ejection of relays, Ensure relays are securely mounted on or easily removed from sockets.

RoHS compliant

CONTACT DATA

Contact arrangement	1C	2C
Contact rating (Res. load)	16A 250VAC	8A 250VAC
Max. switching voltage	440VAC	
Max. switching current	16A	8A

CHARACTERISTICS

Insulation resistance	1000MΩ (500VAC)	
Dielectric strength(RMS)	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
	Between contact sets	2500VAC 1min
Operate time (at nomi. volt.)	15ms max. (DC type)	
Release time (at nomi. volt.)	8ms max. (DC type)	
Humidity (RH)	5% to 85%RH	
Storage temperature	-40°C to 85°C	
Overvoltage category	III	
Conductor cross-section	0.5mm ² to 2.5mm ²	

COIL DATA

23°C

DC type

Nominal Voltage VDC	Pick-up ¹⁾ Voltage VDC max.	Drop-out ¹⁾ Voltage VDC min	Max. ²⁾ Allowable Voltage VDC	Coil voltage Ω
12	8.4	1.2	18	360 x (1±10%)
24	16.8	2.4	36	1440 x (1±10%)
48 ⁽³⁾	33.6	4.8	72	5760 x (1±15%)
110 ⁽³⁾	77.0	11.0	165	25200 x (1±15%)

- Notes: (1) The data shown above are initial values;
 (2) Max. voltage refers to the maximum voltage which relay coil could endure in a short period of time;
 (3) For products with rated voltage ≥ 48V, measures should be taken to prevent coil overvoltage in order to protect coil in test and application (eg. Connect diodes in parallel).

AC type(50Hz)

Nominal Voltage VDC	Pick-up ¹⁾ Voltage VDC max.	Drop-out ¹⁾ Voltage VDC min	Max. Allowable Voltage VDC	Coil voltage Ω
24	≤ 18.0	≥ 3.6	31.6	350 x (1±10%)
115	≤ 86.3	≥ 17.25	6.6	8100 x (1±15%)
230	≤ 172.5	≥ 34.5	3.2	32500 x (1±15%)

- Notes: (1) The data shown above are initial values.



HONGFA RELAY
ISO9001, IATF16949, ISO14001, ISO45001, IECQ QC 080000 CERTIFIED

2023 Rev. 1.00

ORDERING INFORMATION

HF115FP-AS / □ -1Z 3 B --□ -□ (XXX)

Relay module HF115FP: Relay type
AS: module

Relay coil voltage 12 to 110: 12,24,48,110VDC
A24 to A230: 24,115,230VAC

Contact arrangement 1Z: 1 Form C
2Z: 2 Form C

Structure 3: 5.0mm 1 pole 16A 4: 5.0mm 2 pole 8A

Contact material B: AgNi

Matching socket A1: PCB terminal
C3: Screw terminal
C10: Push in terminal

Matching retaining clip H6 for socket C3,C10 H11 for socket A1

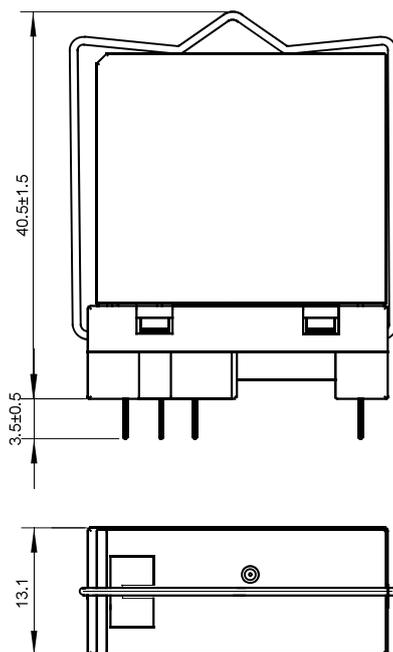
Special code XXX: The customer special requirement Nil: Standard type

OUTLINE DIMENSIONS, WIRING DIAGRAM

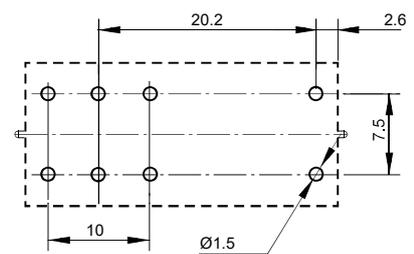
Unit: mm

Outline Dimensions

HF115FP-AS/□-□□□□-A1-H11



Wiring Diagram(Bottom view)



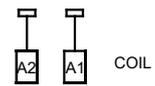
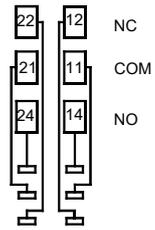
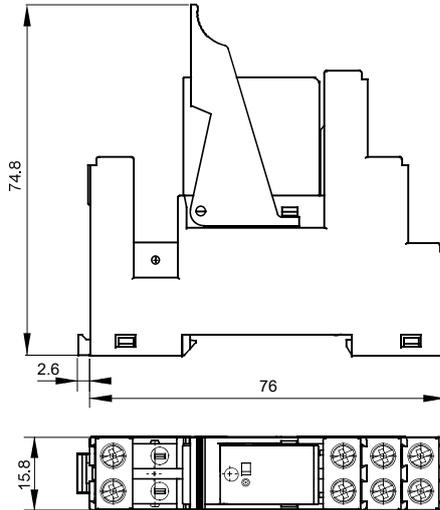
OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

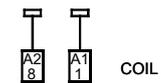
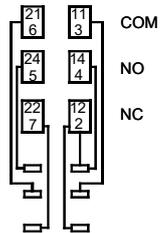
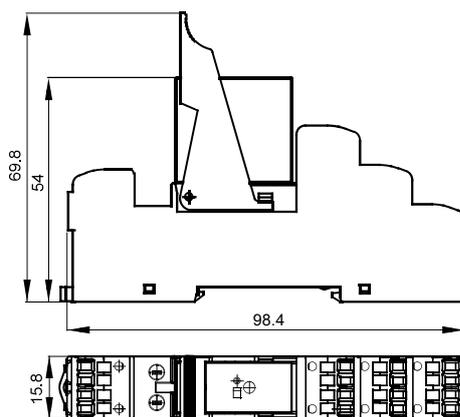
Outline Dimensions

Wiring Diagram(Top view)

HF115FP-AS/□-□□□□-C3-H6

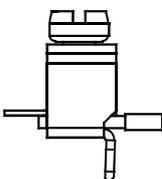


HF115FP-AS/□-□□□□-C10-H6



COMPONENT ORDERING INFORMATION

Screw terminal ❖❖❖



P/N	module type	relay type	socket type	retainer type	Min. packing quantity	unit weight
—	HF115FP-AS/024-2Z4B-C3-H6	HF115FP/024-2Z4B	14FF-2Z-C3	14FF-H6	10pcs	Approx. 64g

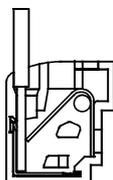
Note: Please contact us for any information.

PCB terminal ❖❖❖

P/N	module type	relay type	socket type	retainer type	Min. packing quantity	unit weight
—	HF115FP-AS/024-2Z4B-A1-H11	HF115FP/024-2Z4B	14FF-2Z-A1	14FF-H11	10pcs	Approx. 19.5g

Note: Please contact us for any information.

Push in terminal ❖❖❖



P/N	module type	relay type	socket type	retainer type	Min. packing quantity	unit weight
—	HF115FP-AS/024-2Z4B-C10-H6	HF115FP/024-2Z4B	14FF-2Z-C10	14FF-H6	10pcs	Approx. 53.5g

Note: Please contact us for any information.

PRECAUTIONS FOR USE

For your personal safety and the normal operation of the equipment, as well as to prevent fire, please note the following issues :

- 1、 The rated current of the socket should be no less than the rated current of the relay.
- 2、 Sockets are required to be firmly fixed to prevent the wiring from loosening and affecting the quality of wiring.
- 3、 Be sure to disconnect power to the outlet before installation, disassembly, wiring, maintenance and inspection.
- 4、 Prevent foreign objects such as wire shavings from falling inside this product when wiring.
- 5、 Be sure to install the relay in place, and use accessories such as retainer if necessary to improve contact reliability.
Do not use with incomplete connections.
- 6、 Be sure to observe the relay ratings and do not overload the relay.
- 7、 Before selecting a relay, make sure that the drive voltage matches the relay excitation voltage.
- 8、 The main external dimension, when the external dimension > 50mm, the tolerance is $\pm 1\text{mm}$; When the 20mm < dimensions are between $50\text{mm} \leq$, the tolerance is $\pm 0.5\text{mm}$; When the overall dimension of $5\text{mm} <$ between $\leq 20\text{mm}$, the tolerance is $\pm 0.4\text{mm}$, and when the external dimension is $\leq 5\text{mm}$, the tolerance is $\pm 0.3\text{mm}$;
- 9、 For rail installation, it is recommended to use DIN standard $35 \times 7.5 \times 1$, $35 \times 15 \times 1$ standard rails.

PRECAUTIONS FOR USE

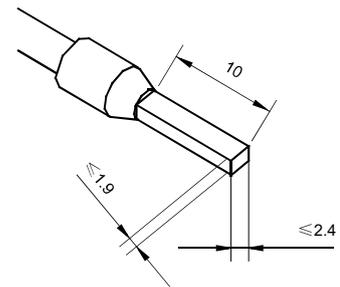
Relay module of screw terminal ❖❖❖

Maximum torque 0.8N.m, The type of the screwdriver head is PH1.

Relay module of push interterminal ❖❖❖

Conductor cross-section

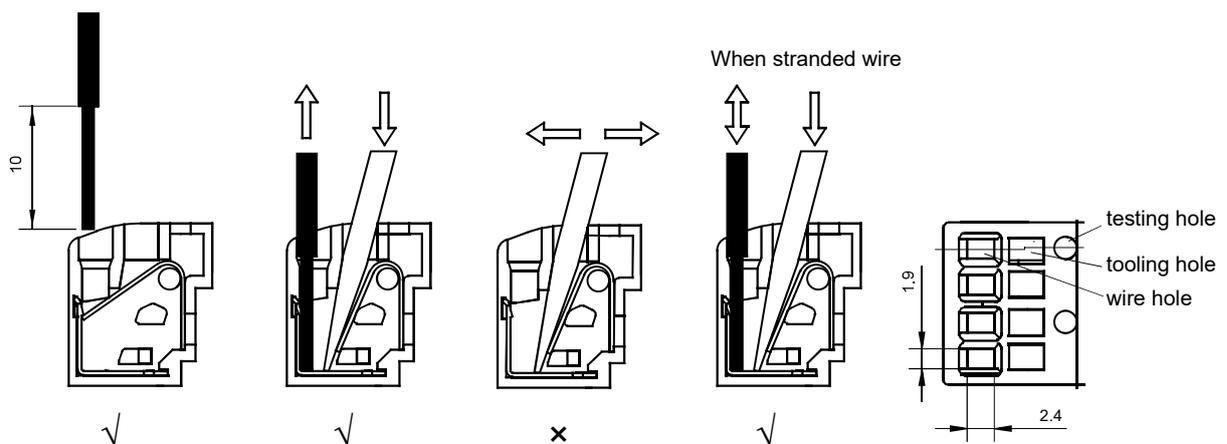
Solid wire	1×0.5/0.75/1.0/1.5/2.5 mm ²	
	2×0.5/0.75/1.0/1.5 mm ²	
Stranded wire	Stranded wires without ferrule	1×0.5/0.75/1.0/1.5/2.5 mm ²
		2×0.5/0.75/1.0/1.5 mm ²
	Stranded wires with ferrule	1×0.5/0.75/1.0/1.5 mm ²
		2×0.5/0.75/1.0 mm ²



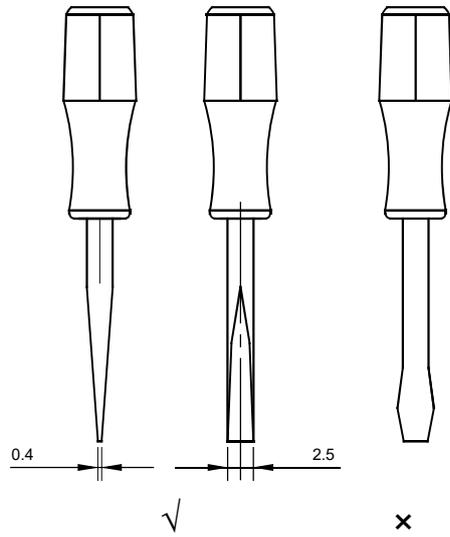
About push in socket

- Do not insert wires into tooling hole.
- When inserting the screwdriver into the hole, please insert it at an angle.
- Do not twist or wiggle the screwdriver when it is in the hole, as this may cause damage to the socket.
- Do not forcibly bend or pull on the wire. Otherwise it may result in broken wire.
- Do not insert more than one wire into one wiring hole.
- To prevent smoke and fire from the wiring material, check the power supply rating and that the wire sleeves used are in accordance with DIN 46228-4. The conductors used comply with GB/T 5023.3-2008 (IEC 60227-3) standard.

Range of wire	Stripped length min
0.5 to 2.5mm ² / AWG20 to 14	10mm



PRECAUTIONS FOR USE



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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