

Features

- 2000VAC insulation, 1000MΩ insulation resistance
- DIN rail or Screw mounting type available
- With 2 or 4 sets of changeover contact options
- Products with finger protection are available
- Gold plated contact product selection

RoHS compliant

Wiring hole

For wire connection, suit for both rigid and flexible wire compression terminals.

Retainer

Prevent relay from loosening or falling out in vibration environment. Quickly remove the relay.

Relay

Suitable for different application environments and loads. AC and DC coil, LED, working indicator board, sealed type, anti-explosive design, high load, long lifecycle



Socket marking

Marked with main electrical performance, load range.

Socket installation

DIN rail (35mm) mount or screw (Ø3.5) mount.



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



File No.: R50147087(Relay)



File No.: CQC09002030026(DC Relay)
CQC09002030027(AC Relay)



HONGFA RELAY

ISO9001, IATF16949, ISO14001, ISO45001, IECQ QC 080000, ISO/IEC 27001 CERTIFIED

2024 Rev. 1.00

COIL DATA

23°C

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min	Max. Allowable Voltage VDC
5	4.0	0.50	5.5
6	4.8	0.60	6.6
9	7.2	0.90	9.9
12	9.6	1.20	13.2
21	16.8	2.10	23.1
24	19.2	2.40	26.4
30	24.0	3.00	33.0
36	28.8	3.60	39.6
48	38.4	4.80	52.8
60	48.0	6.00	66.0
110	80.0	11.0	121.0
125	100.0	12.5	137.5
220	176.0	22.0	242.0

Nominal Voltage VAC	Pick-up Voltage VAC max.	Drop-out Voltage VAC min	Max. Allowable Voltage VAC
6	4.80	1.80	6.6
12	9.60	3.60	13.2
24	19.2	7.20	26.4
36	28.8	10.8	39.6
48	38.4	14.4	52.8
60	48.0	18.0	66.0
110	80.0	33.0	121.0
120	88.0	36.0	132.0
220	160.0	66.0	242.0
240	176.0	72.0	264.0
277	221.6	83.1	304.7

CONTACT DATA

Contact arrangement	2C,4C
Contact rating (Res. load)	7A 250VAC/30VDC(2C) 6A 250VAC/30VDC(4C)
Max. switching voltage	250VAC/30VDC
Max. switching current	7A (2C), 6A (4C)

CHARACTERISTICS

Insulation resistance	1000MΩ (500VAC)	
Dielectric strength (RMS)	Between coil & contacts	1500VAC 1min
	Between open contacts	1000VAC 1min
	Between contact sets	1500VAC 1min
Operate time (at nomi. volt.)	20ms max.	
Release time (at nomi. volt.)	15ms(DCtype max.) 25ms(DC with freewheeling diode type max.) 25ms(ACtype max.)	
Humidity(RH)	5% to 85%RH	
Ambient temperature	-40°C to 70°C	

ORDERING INFORMATION

HF18FF-AS/ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> 1 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (XXX)-C <input type="checkbox"/> (XXX)-AA-H <input type="checkbox"/>	
Relay module	HF18FF: type without button AS: module
Coil Power	A: AC(50HZ or 60HZ) Nil: DC
Relay coil voltage	DC: 005~220VDC AC: 006~277VAC
Contact arrangement	2Z: 2 Form C 4Z: 4 Form C
Installation method	1: Plug-in
Contact material	3: AgNi T: AgSnO ₂
Contact plating	Nil: No gold plated G: Au plated
Component code	Nil: Without component D: With LED J: Freewheeling diode DJ: With LED, freewheeling diode
Relay special code²⁾	XXX: The customer special requirement Nil: Standard type
Socket installation	C2、C4、C5、C10 for 2Z C2、C4、C5、C10 for 4Z
Socket special code²⁾	XXX: The customer special requirement Nil: Standard type
Auxiliary module	C4, C5 and C10 series available; see HFAA-HFHU Instruction Manual for details.
Matching retaining clip	H2 for C2 H5 for C4,C5,C10

Notes: 1) The AS component model is for customer ordering convenience only; the actual marking shall prevail as printed on the relay and socket products.
 2) The customer special requirement express as special code after evaluating by Hongfa;
 3) Only the relays with DC coil voltage form are available with freewheeling diode.

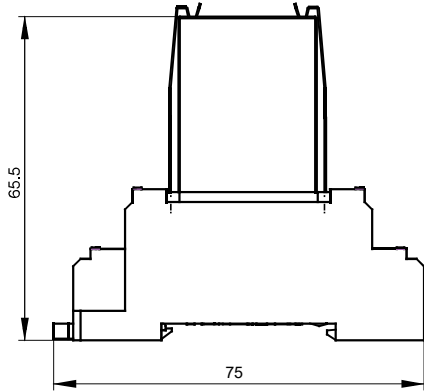
OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

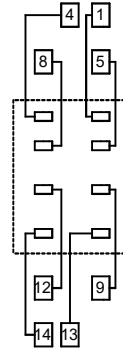
Outline Dimensions

Wiring Diagram(Bottom view)

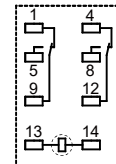
HF18FF-AS/□□-2Z1□□□-C2-H2



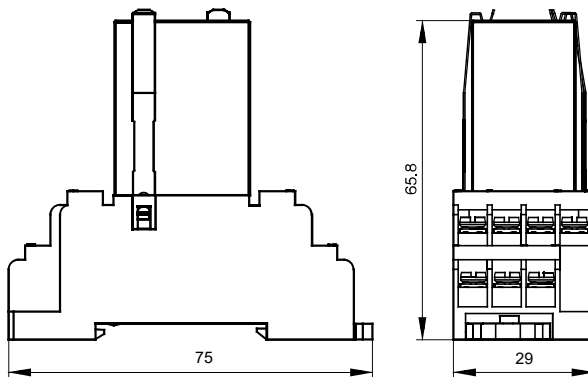
Socket (Top View)



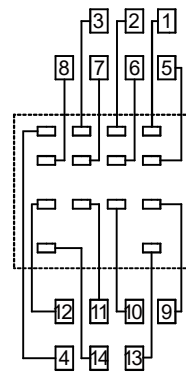
Relay(Bottom view)¹⁾



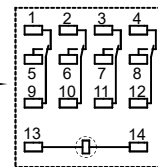
HF18FF-AS/□□-4Z1□□□-C2-H2



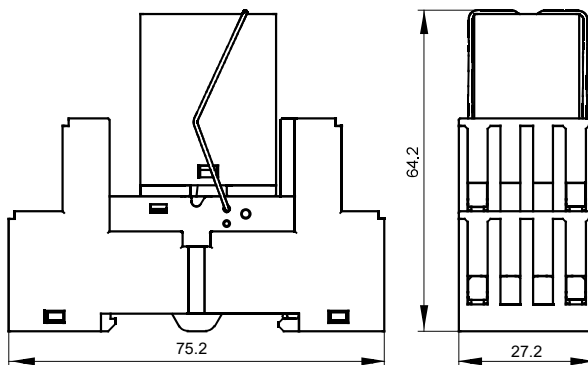
Socket (Top View)



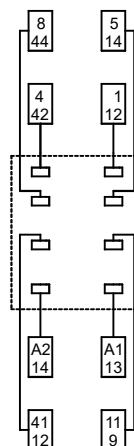
Relay(Bottom view)¹⁾



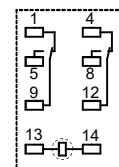
HF18FF-AS/□□-2Z1□□□-C4-H5



Socket (Top View)



Relay(Bottom view)¹⁾



Notes: 1) For the relay wiring diagram, please refer to the instruction manual of Relay HF18FF.

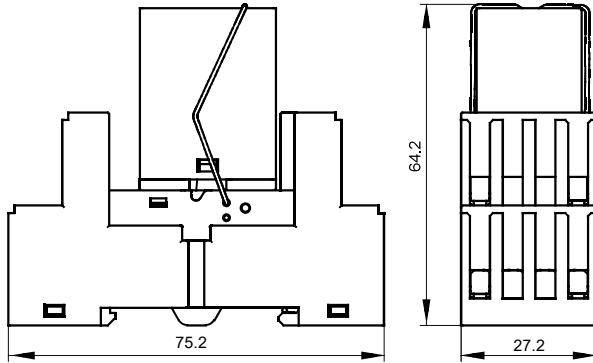
OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

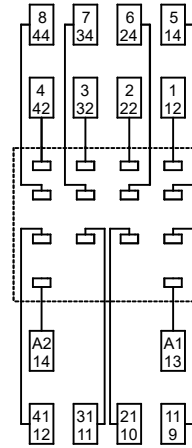
Outline Dimensions

Wiring Diagram(Bottom view)

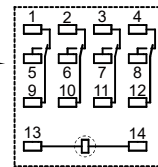
HF18FF-AS/□□-4Z1□□□-C4-H5



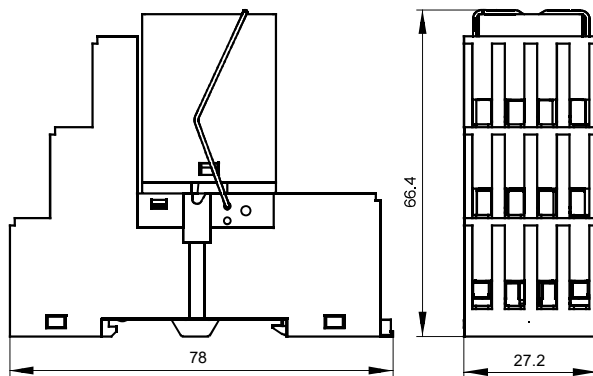
Socket (Top View)



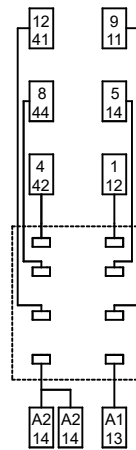
Relay(Bottom view)¹⁾



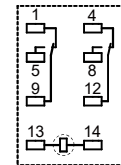
HF18FF-AS/□□-2Z1□□□-C5-H5



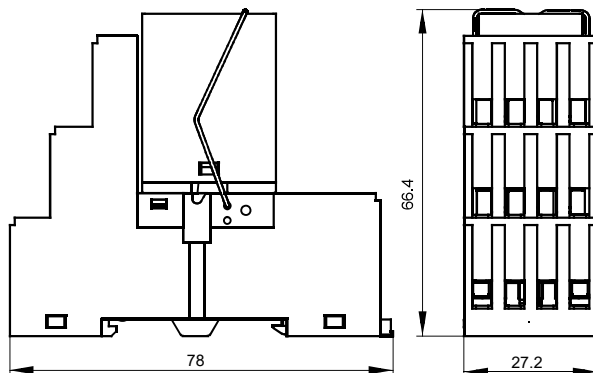
Socket (Top View)



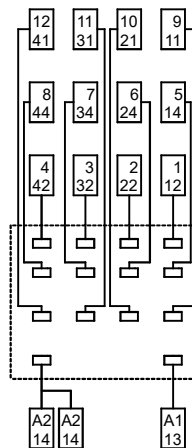
Relay(Bottom view)¹⁾



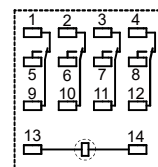
HF18FF-AS/□□-4Z1□□□-C5-H5



Socket (Top View)



Relay(Bottom view)¹⁾



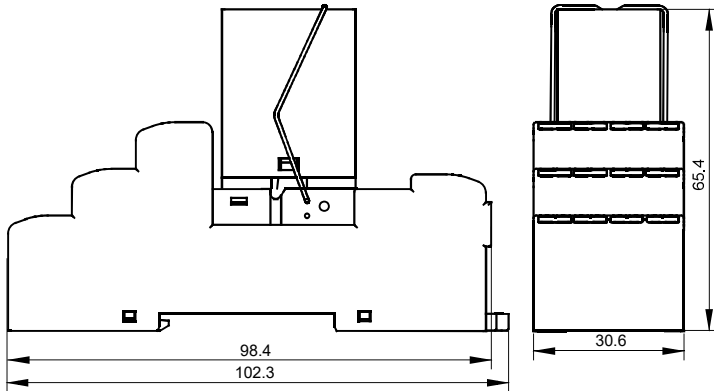
Notes: 1) For the relay wiring diagram, please refer to the instruction manual of Relay HF18FF.

OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

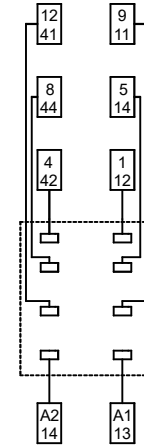
Outline Dimensions

HF18FF-AS/□□-2Z1□□□-C10-H5

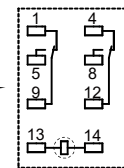


Wiring Diagram(Bottom view)

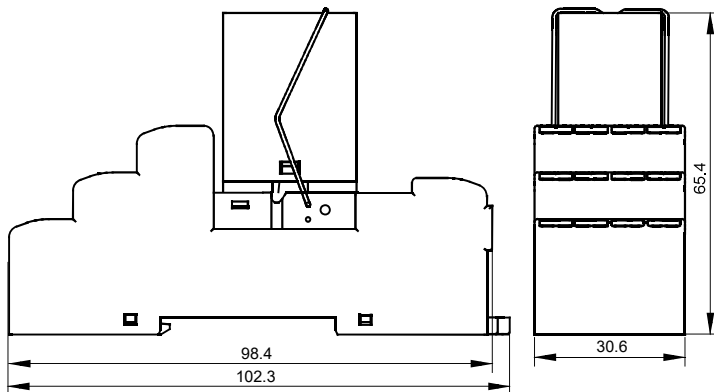
Socket (Top View)



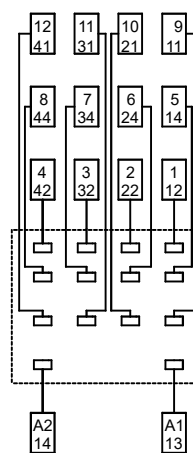
Relay(Bottom view)¹⁾



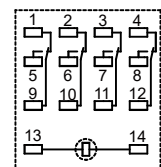
HF18FF-AS/□□-4Z1□□□-C10-H5



Socket (Top View)



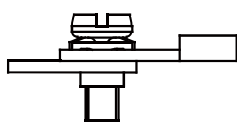
Relay(Bottom view)¹⁾



Notes: 1) For the relay wiring diagram, please refer to the instruction manual of Relay HF18FF.

COMPONENT ORDERING INFORMATION

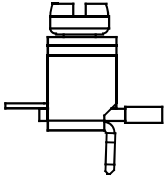
Gasket screw Relay



P/N	module type	relay type	socket type	retainer type
—	HF18FF-AS/012-2Z13D-C2-H2	HF18FF/012-2Z13D	18FF-2Z-C2	18FF-H2
—	HF18FF-AS/024-2Z13D-C2-H2	HF18FF/024-2Z13D		
—	HF18FF-AS/A110-2Z13D-C2-H2	HF18FF/A110-2Z13D		
—	HF18FF-AS/A220-2Z13D-C2-H2	HF18FF/A220-2Z13D		
—	HF18FF-AS/012-4Z13D-C2-H2	HF18FF/012-4Z13D	18FF-4Z-C2	
—	HF18FF-AS/024-4Z13D-C2-H2	HF18FF/024-4Z13D		
—	HF18FF-AS/A110-4Z13D-C2-H2	HF18FF/A110-4Z13D		
—	HF18FF-AS/A220-4Z13D-C2-H2	HF18FF/A220-4Z13D		

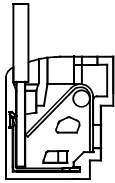
COMPONENT ORDERING INFORMATION

Screw terminal



P/N	module type	relay type	socket type	retainer type
—	HF18FF-AS/012-2Z13D-C4-H5	HF18FF/012-2Z13D	18FF-2Z-C4	18FF-H5
—	HF18FF-AS/024-2Z13D-C4-H5	HF18FF/024-2Z13D		
—	HF18FF-AS/A110-2Z13D-C4-H5	HF18FF/A110-2Z13D		
—	HF18FF-AS/A220-2Z13D-C4-H5	HF18FF/A220-2Z13D		
—	HF18FF-AS/012-4Z13D-C4-H5	HF18FF/012-4Z13D	18FF-4Z-C4	
—	HF18FF-AS/024-4Z13D-C4-H5	HF18FF/024-4Z13D		
—	HF18FF-AS/A110-4Z13D-C4-H5	HF18FF/A110-4Z13D		
—	HF18FF-AS/A220-4Z13D-C4-H5	HF18FF/A220-4Z13D		
—	HF18FF-AS/012-2Z13D-C5-H5	HF18FF/012-2Z13D	18FF-2Z-C5	
—	HF18FF-AS/024-2Z13D-C5-H5	HF18FF/024-2Z13D		
—	HF18FF-AS/A110-2Z13D-C5-H5	HF18FF/A110-2Z13D		
—	HF18FF-AS/A220-2Z13D-C5-H5	HF18FF/A220-2Z13D		
—	HF18FF-AS/012-4Z13D-C5-H5	HF18FF/012-4Z13D	18FF-4Z-C5	
—	HF18FF-AS/024-4Z13D-C5-H5	HF18FF/024-4Z13D		
—	HF18FF-AS/A110-4Z13D-C5-H5	HF18FF/A110-4Z13D		
—	HF18FF-AS/A220-4Z13D-C5-H5	HF18FF/A220-4Z13D		

Push-in type



P/N	module type	relay type	socket type	retainer type
—	HF18FF-AS/012-2Z13D-C10-H5	HF18FF/012-2Z13D	18FF-2Z-C10	18FF-H5
—	HF18FF-AS/024-2Z13D-C10-H5	HF18FF/024-2Z13D		
—	HF18FF-AS/A110-2Z13D-C10-H5	HF18FF/A110-2Z13D		
—	HF18FF-AS/A220-2Z13D-C10-H5	HF18FF/A220-2Z13D		
—	HF18FF-AS/012-4Z13D-C10-H5	HF18FF/012-4Z13D	18FF-4Z-C10	
—	HF18FF-AS/024-4Z13D-C10-H5	HF18FF/024-4Z13D		
—	HF18FF-AS/A110-4Z13D-C10-H5	HF18FF/A110-4Z13D		
—	HF18FF-AS/A220-4Z13D-C10-H5	HF18FF/A220-4Z13D		

Notes: Please contact us for any information.

Precautions when choosing components:

1. The main external dimension, when the external dimension > 50mm, the tolerance is $\pm 1\text{mm}$; When the 20mm dimensions are between 50mm, the tolerance is $\pm 0.5\text{mm}$; When the 5mm < dimensions are between $\leq 20\text{mm}$, The tolerance is $\pm 0.4\text{mm}$, and when the overall dimension is $\leq 5\text{mm}$, the tolerance is $\pm 0.3\text{mm}$;
2. For rail installation, it is recommended to use DIN standard 35×7.5×1, 35×15×1 standard rails.

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.

© Xiamen Hongfa Electroacoustic Co., Ltd. All rights of Hongfa are reserved.