18FF Sockets

RELAY SOCKETS



Features

- The dielectric strength can reach 2000VAC and the insulation resistance is 1000MΩ
- Three mounting types are available: PCB mounting 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.
- Components available: retainer, marker and plug-in module
- Applicable relay types: HF18FF/HF18FH
- Environmental friendly product (RoHS compliant)

ORDERING INGFORMATION

18FF

-2Z

-C1

Type

Contact arrangement 2Z:2 Form C 3Z: 3 Form C 4Z: 4 Form C

Termination & mounting

A2: PCB terminal, PCB or Screw mounting

C1: Screw terminal, DIN rail or Screw mounting, Without finger protection device C2/C4/C5/C8: Screw terminal, DIN rail mounting, With finger protection device C9: Screwless terminal, DIN rail mounting, With finger protection device

CHARACTERISTICS

Туре	Nominal Voltage	Nominal Current	Ambient Temperature	Dielectric Strength min.	Screw Torque	Wire Strip Length	Unit weight
18FF-2Z-A2	250VAC	7A	-40 °C to 70°C	2000VAC	_	_	Approx.8g
18FF-2Z-C1	250VAC	7A	-40 °C to 70°C	2000VAC	0.8N · m	7mm	Approx.35g
18FF-2Z-C2	250VAC	7A	-40 °C to 70°C	2000VAC	0.8N · m	7mm	Approx.36g
18FF-2Z-C4	250VAC	7A	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.53g
18FF-2Z-C5	250VAC	7A	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.64g
18FF-2Z-C8	250VAC	7A	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.41g
18FF-2Z-C9	250VAC	7A	-40 °C to 70°C	2000VAC	_	7mm	Approx.70g
18FF-3Z-C4	250VAC	7A*	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.59g
18FF-3Z-C5	250VAC	7A*	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.71g
18FF-4Z-A2	250VAC	7A*	-40 °C to 70°C	2000VAC	_	_	Approx.8g
18FF-4Z-C1	250VAC	7A*	-40 °C to 70°C	2000VAC	0.8N · m	7mm	Approx.58g
18FF-4Z-C2	250VAC	7A*	-40 °C to 70°C	2000VAC	0.8N · m	7mm	Approx.59g
18FF-4Z-C4	250VAC	7A*	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.64g
18FF-4Z-C5	250VAC	7A*	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.76g
18FF-4Z-C8	250VAC	7A*	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.51g
18FF-4Z-C9	250VAC	7A*	-40 °C to 70°C	2000VAC	_	7mm	Approx.81g
18FZ-2Z-C2	250VAC	7A	-40 °C to 70°C	2000VAC	0.8N · m	7mm	Approx.30g
18FZ-4Z-C2	250VAC	5A	-40 °C to 70°C	2000VAC	0.8N · m	7mm	Approx.44g
18FF-2Z-C1(734)	250VAC	12A	-40 °C to 70°C	2000VAC	0.8N · m	7mm	Approx.35g
18FF-2Z-C2(734)	250VAC	12A	-40 °C to 70°C	2000VAC	0.8N · m	7mm	Approx.36g
18FF-2Z-C4(734)	250VAC	12A	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.53g
18FF-2Z-C5(734)	250VAC	12A	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.64g
18FF-3Z-C5(734)	250VAC	10A	-40 °C to 70°C	2000VAC	0.6N · m	7mm	Approx.71g

Remark: For sockets marked *, their group of current totally should be not more than 20A.



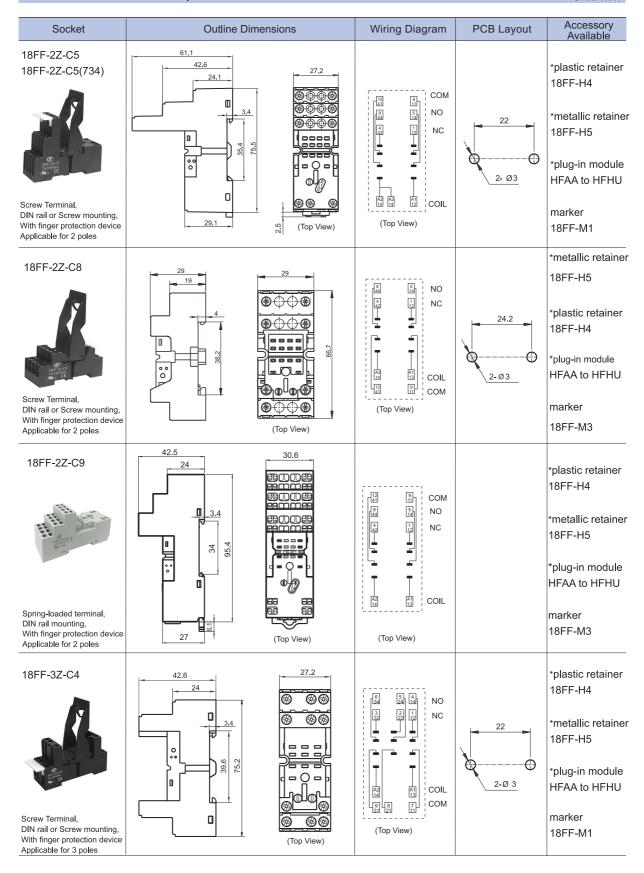
HONGFA RELAY

ISO9001, ISO/TS16949 , ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm Accessory Available **Outline Dimensions** Wiring Diagram **PCB** Layout Socket 18FF-2Z-A2 13.2 *metallic retainer 18FF-H1 8-Ø1.3 (Top View) PCB Terminal, PCB mounting Applicable for 2 poles 18FF-2Z-C1 18FF-2Z-C1(734) 2 Ø4 5 *metallic retainer 18FF-H2 (be used in sets) 12-**9**-Φ -09 (Ġ Screw Terminal, 16.5 30 DIN rail or Screw mounting, (Top View) Without finger protection device (Top View) Applicable for 2 poles 18FF-2Z-C2 2-4.2x5 18FF-2Z-C2(734) <u>2-Ø4.5</u> *metallic retainer 18FF-H2 (be used in sets) Screw Terminal. Φ (Top View) DIN rail or Screw mounting, 16.5 With finger protection device Applicable for 2 poles (Top View) 18FF-2Z-C4 42 6 *plastic retainer 18FF-2Z-C4(734) 27.2 NO 18FF-H4 5 14 $\Theta \bigcirc \bigcirc \Theta$ 42 NC 0 **9009** *metallic retainer 18FF-H5 *plug-in module A2 14 43 -0-2- Ø3 COIL HFAA to HFHU L₁₂ 9 11 COM 0 Screw Terminal, (Top View) DIN rail or Screw mounting, marker With finger protection device (Top View) 18FF-M1 Applicable for 2 poles

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm Accessory **Outline Dimensions** Wiring Diagram Socket **PCB** Layout Available 61.1 18FF-3Z-C5 *plastic retainer 42.6 18FF-3Z-C5(734) 24.1 18FF-H4 8 7 21 11 СОМ ₩₩ 6 34 5 24 4 14 NO ₩₩ 22 *metallic retainer 2 22 NC ₩ @ 18FF-H5 _ = *plug-in module 2-Ø3 HFAA to HFHU COIL 0 DIN rail or Screw mounting, marker 2.5 Witht finger protection device (Top View) 18FF-M1 Applicable for 3 poles (Top View) 29.1 18FF-4Z-A2 0000 0000 metallic retainer 18FF-H1 13.2 21.6 14-Ø1.3 (Top View) (Top View) PCB Terminal, PCB mounting Applicable for 4 poles 18FF-4Z-C1 14-M3 x 8 2-Ø4.5 (3)(2)(1) 765 *metallic retainer 18FF-H2 59 (be used in sets) **3 3 3 3** Screw Terminal, @|@[|]@|@ DIN rail or Screw mounting, Withtout finger protection _{16.5}⊟ -(4) [[][4] (3) device 29 Applicable for 4 poles (Top View) (Top View) 2-4.2x5 14-M3x8 18FF-4Z-C2 2-Ø4.5 321 8 7 6 5 **₽₽₽** *metallic retainer 71.2 18FF-H2 59 (be used in sets) 12 10 10 9 Screw Terminal, 16.5E 4 4 13 DIN rail or Screw mounting, With finger protection device (Top View) Applicable for 4 poles (Top View)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm Accessory Available Wiring Diagram Socket **Outline Dimensions PCB** Layout 18FF-4Z-C4 *plastic retainer 18FF-H4 8 7 6 5 44 34 24 14 NO **®®®**® NC $\otimes \otimes \otimes \otimes$ *metallic retainer 22 18FF-H5 ____ 75.2 *plug-in module -0-2- Ø3 COIL HFAA to HFHU COM 12 11 10 9 41 31 21 11 Screw Terminal, marker DIN rail or Screw mounting, 0 $^{\oplus}$ With finger protection device (Top View) 18FF-M1 (Top View) Applicable for 4 poles 61.1 18FF-4Z-C5 *plastic retainer 42.6 24.1 18FF-H4 27.2 12 11 10 9 41 31 21 11 8 7 6 5 44 34 14 COM **9999** 0 *metallic retainer ₩₩₩₩ NO 3 2 1 32 22 12 18FF-H5 NC ____ *plug-in module **O O** 2-Ø3 HFAA to HFHU Screw Terminal 0 COIL A2 A2 14 A1 13 marker 2.5 DIN rail or Screw mounting. ∰∰ 18FF-M1 With finger protection device (Top View) Applicable for 4 poles 29.1 (Top View) 18FF-4Z-C8 *plastic retainer 7 6 5 34 24 14 NO 18FF-H4 4 42 2 22 1 12 NC **(4) (4) (4)** 24.2 *metallic retainer 18FF-H5 2- Ø3 marker A1 13 COIL 18FF-M3 12 11 10 9 41 31 21 11 COM Screw Terminal. ******* *plug-in module DIN rail or Screw mounting, (Top View) With finger protection device HFAA to HFHU (Top View) Applicable for 4 poles 42.5 30.6 18FF-4Z-C9 24 ana a *plastic retainer 12 11 10 9 41 31 21 11 COM 18FF-H4 8888 NO 0 3.4 NC *metallic retainer 39696969 95.4 18FF-H5 34 *plug-in module 0 HFAA to HFHU COIL Spring-loaded terminal, DIN rail mounting, (Top View) marker With finger protection device 18FF-M3 Applicable for 4 poles (Top View)

Notes: * If need accesscry, please order with type.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

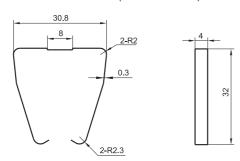
Socket	Outline Dimensions	Wiring Diagram	PCB Layout	Accessory Available
18FZ-2Z-C2 Screw Terminal, DIN rail or Screw mounting, With finger protection device	30 2x4.2x5 6 8xM3 \$\frac{1}{2} \frac{1}{2} \frac\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac	(Top View)	2xØ4.5	*metallic retainer 18FF-H2 (be used in sets)
18FZ-4Z-C2 Screw Terminal, DIN rail or Screw mounting, With finger protection device	30 2x4.2x5 6 14xM3 14xM3 15 29 (Top View)	(Top View)	2xØ4.5	*metallic retainer 18FF-H2 (be used in sets)

DIMENSION OF RELATED ACCESSORY (AVAILABLE)

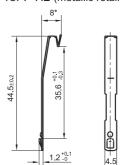
Unit: mm

Retainer

18FF-H1 (metallic retainer)



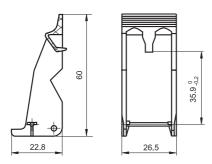
18FF-H2 (metallic retainer)



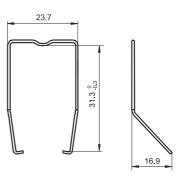
Remark: 18FF-H2 retainer has to be used in sets, please pay special attention while placing the order.

Retainer

18FF-H4 (plastic retainer)



18FF-H5 (metallic retainer)

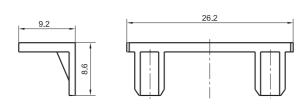


DIMENSION OF RELATED ACCESSORY (AVAILABLE)

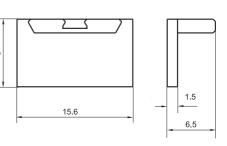
Unit: mm

Marker





18FF-M3



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; If need markers ,please order with type.
- 3. Main outline dimension, outline dimension>50mm, tolerance should be ± 1 mm; 20mm<outline dimension ≤ 50 mm, tolerance should be ± 0.5 mm; 5mm<outline dimension ≤ 20 mm, tolerance should be ± 0.4 mm; outline dimension ≤ 5 mm, tolerance should be ± 0.3 mm.
- 4. DIN rail mounting: recommend to use standard rail $35 \times 7.5 \times 1$, $35 \times 15 \times 1$.

Disclaimer

TThe 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.

SELECTION OF PARTS Module Type of Relay Marker Mounting termination Retainer Socket 18FF-2Z-A2 18FF-H1 18FF-2Z-C1 18FF-H2 18FF-2Z-C2 18FZ-2Z-C2 HF18FF/ __-2Z1 ___ 18FF-2Z-C4 18FF-M1 18FF-2Z-C5 18FF-2Z-C8 18FF-H4/H5 HFAA~HFHU 18FF-M3 18FF-2Z-C9 18FF-3Z-C4 without button HF18FF/□□-3Z1□□□ 18FF-M1 18FF-3Z-C5 18FF-H1 18FF-4Z-A2 18FF-4Z-C1 18FF-4Z-C2 18FF-H2 18FZ-4Z-C2 HF18FF/□□-4Z1□□□ 18FF-4Z-C4 18FF-M1 18FF-4Z-C5 18FF-H4/H5 18FF-4Z-C8 18FF-M3 18FF-4Z-C9 18FF-2Z-C4 18FF-M1 18FF-2Z-C5 HF18FH/ __-2Z1 ___ 18FF-2Z-C8 18FF-2Z-C9 18FF-M3 18FF-3Z-C4 with button 18FF-H4/H5 HF18FH/□□-3Z1□□□ 18FF-3Z-C5 18FF-M1 HFAA~HFHU 18FF-4Z-C4 18FF-4Z-C5 18FF-M1 18FF-4Z-C8 HF18FH/□□-4Z1□□□ 18FF-4Z-C9 18FF-M3 18FF-2Z-C1(734) 18FF-H2 18FF-2Z-C2(734) $HF18FF-G/\square\square-2Z1\square\square\square$ without button 18FF-2Z-C4(734) 18FF-2Z-C5(734) 18FF-3Z-C5(734) HF18FF-G/□□-3Z1□□□ 18FF-H4/H5 18FF-M1 HFAA~HFHU 18FF-2Z-C4(734) HF18FH-G/□□-2Z1□□□ with button 18FF-2Z-C5(734) HF18FH-G/□□-3Z1□□□ 18FF-3Z-C5(734)

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 HF18FF relay. If you have any special requirements,
- 4. Main outline dimension, outline dimension>50mm, tolerance should be ± 1 mm; 20mm<outline dimension ≤ 50 mm, tolerance should be ± 0.5 mm; 5mm<outline dimension ≤ 20 mm, tolerance should be ± 0.4 mm; outline dimension ≤ 5 mm, tolerance should be ± 0.3 mm.
- 5. DIN rail mounting: recommend to use standard rail $35 \times 7.5 \times 1$ mm, $35 \times 15 \times 1$ mm.

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