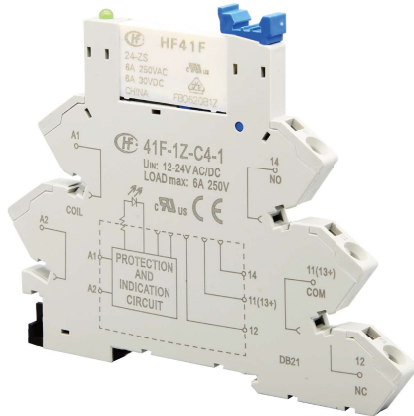


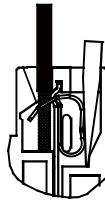
41F Series

Cage Spring Relay Socket



ORDERING INFORMATION

Type	41F	-1Z	-C4	-1
Contact arrangement	1Z: 1 Form C			
Termination & mounting	C4: Cage spring terminal			
Built in module	1: (12-24)VAC/DC 2: (48-60)VAC/DC 3: (110-125)VAC/DC 4: (220-240)VAC/DC 5: (6-24)VDC			



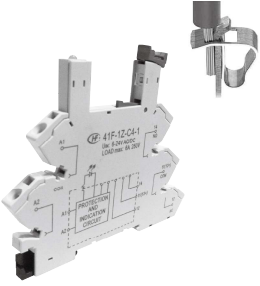
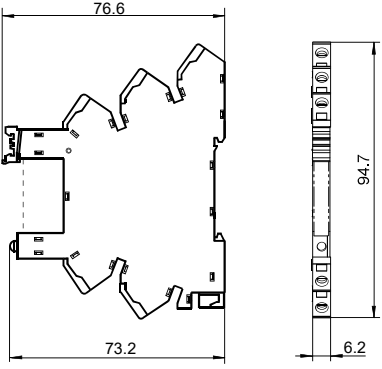
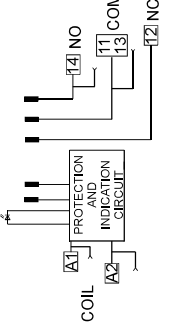
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CHARACTERISTICS

Type	Nominal Voltage	Nominal Current	Ambient Temperature	Input Voltage	Relay's Applicable Rated Voltage	Polarity of Input Voltage	Screw Torque	Wire Strip Length	Unit weight	Min. package qty.
41F-1Z-C4-1	250VAC	6A	-40°C~70°C	(12~24)VAC/DC	(12~24)VDC	No requirement	—	7mm	Approx.25g	10
41F-1Z-C4-2	250VAC	6A	-40°C~70°C	(48~60)VAC/DC	(48~60)VDC	No requirement	—	7mm	Approx.24g	10
41F-1Z-C4-3	250VAC	6A	-40°C~55°C	(110~125)VAC/DC	60VDC	No requirement	—	7mm	Approx.25g	10
41F-1Z-C4-4	250VAC	6A	-40°C~55°C	(220~240)VAC/DC	60VDC	No requirement	—	7mm	Approx.25g	10
41F-1Z-C4-5	250VAC	6A	-40°C~70°C	(6~24)VDC	(6~24)VDC	Requirement	—	7mm	Approx.23g	10

Notes: When the 41F-1Z-C4-1 socket is applied to the relay of 12VDC nominal voltage, the relay of which pick-up voltage =70% nominal voltage should be required and the special order of relay allowed. 41F-1Z-C4-4 is not allowed in continuous electricity conditions.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Socket (If need accessory, please order with type.)	Outline Dimensions	PCB Layout	Accessory Available
41F-1Z-C4-1/2/3/4  Spring-loaded terminal DIN rail mounting With finger protection device	 (Top View)		Marker: 41F-M 41F-M1 Retainer: 41F-J1(blue) 41F-J1R(red) 41F-J1B(black) Plug-in module: 41F-S

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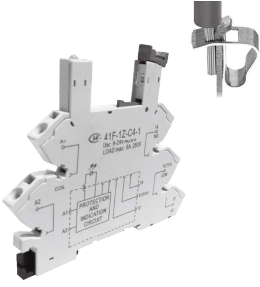
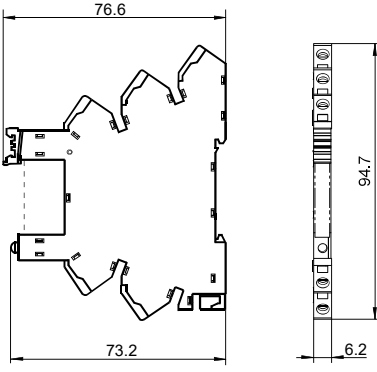
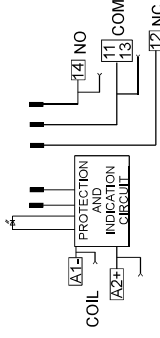
HONGFA RELAY

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

2023 Rev. 1.00

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

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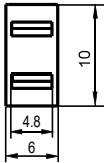
Socket (If need accessry,please order with type.)	Outline Dimensions	PCB Layout	Accessory Available
41F-1Z-C4-5  Spring-loaded terminal DIN rail mounting With finger protection device	 (Top View)		Marker: 41F-M 41F-M1 Retainer: 41F-J1(blue) 41F-J1R(red) 41F-J1B(black) Plug-in module: 41F-S

DIMENSION OF RELATED ACCESSORY (AVAILABLE)

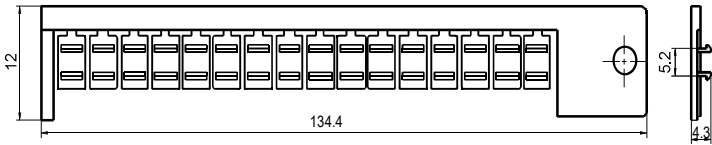
Unit: mm

Marker

41F-M

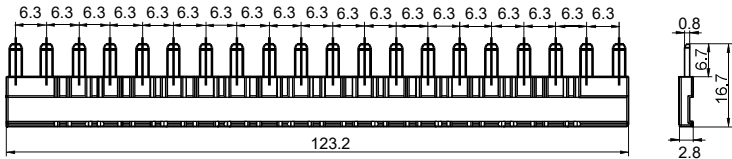


41F-M1



Jumper

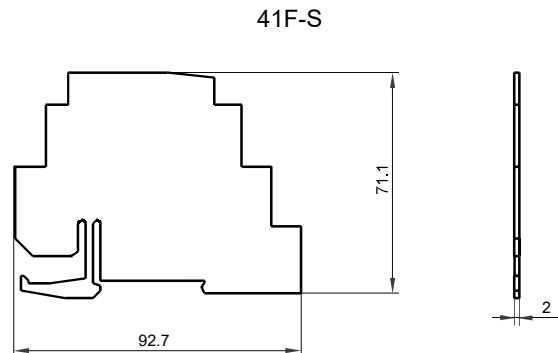
41F-J1(blue), 41F-J1R(red), 41F-J1B(black)



DIMENSION OF RELATED ACCESSORY (AVAILABLE)

Unit: mm

Separator



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. Relevant accessories must be selected separately. Please indicate the model of the selected accessories when ordering;
3. The above is only an example of typical socket and related component type which is suitable to HF41F relay. If you have any special requirements, please contact us.
4. Main outline dimension, outline dimension $> 50\text{mm}$, tolerance should be $\pm 1\text{mm}$; $20\text{mm} < \text{outline dimension} \leq 50\text{mm}$, tolerance should be $\pm 0.5\text{mm}$; $5\text{mm} < \text{outline dimension} \leq 20\text{mm}$, tolerance should be $\pm 0.4\text{mm}$; outline dimension $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$;
5. DIN rail mounting: recommend to use standard rail $35 \times 7.5 \times 1\text{mm}$, $35 \times 15 \times 1\text{mm}$, When installed vertically, the coil terminal at the bottom please.

Precautions For Use

1. Please use the quick-break fuse with rating of 15Amp. for short-circuit protection.
2. It may cause failure, fire or malfunction, when the sockets is continuously applied the power to for a long term In case of exceeding the upper limit ambient temperature. So please ensure that the ambient temperature is within the upper limit when using sockets.
Operating temperature upper limit: 55°C : 41F-1Z-C4-3/4
Operating temperature upper limit: 70°C : 41F-1Z-C4-1/2/5
3. Things to be noticed when selecting soft wiring.
The soft wiring can be divided into the following types.
Twisted line or single wire greater than 0.5mm^2 or less than 2.5mm^2 or greater than AWG 20 and less than AWG14.
Be sure to use this size that the front end of the wire needs to be stripped of the 7mm~8mm insulation protection layer.
 - Use the recommended screwdriver specifications when wiring.

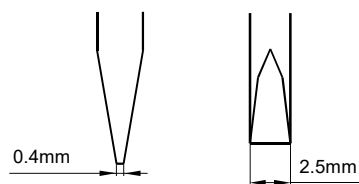


Figure 1

- The insertion position of the wire and the screwdriver and the insertion direction of the screwdriver are as shown in Figure 2.

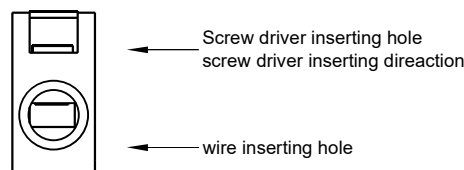


Figure 2

Precautions For Use

- Please use cold pressed terminals when selecting twisted line.
- The method of Wiring as shown in figure 3.
 - Step 1. Insert screwdriver into socket with screwdriver patchhole.
 - Step 2. Push the screwdriver in until it touches the stop position inside the socket, and keep the screwdriver in this position.
 - Step 3. Please keep the screwdriver in this position, and wires inserted into the terminal insertion hole bottom.
 - Step 4. Pull out the screwdriver and the wiring is completed.

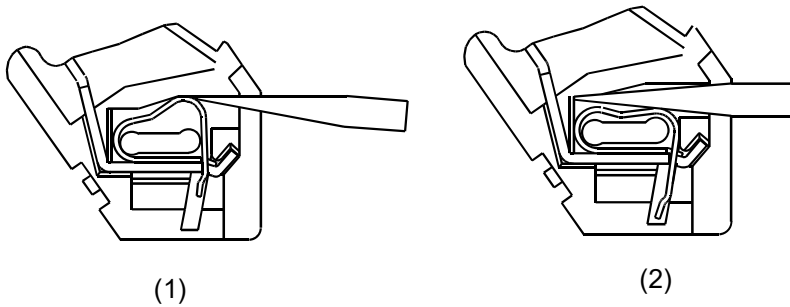


Figure 3

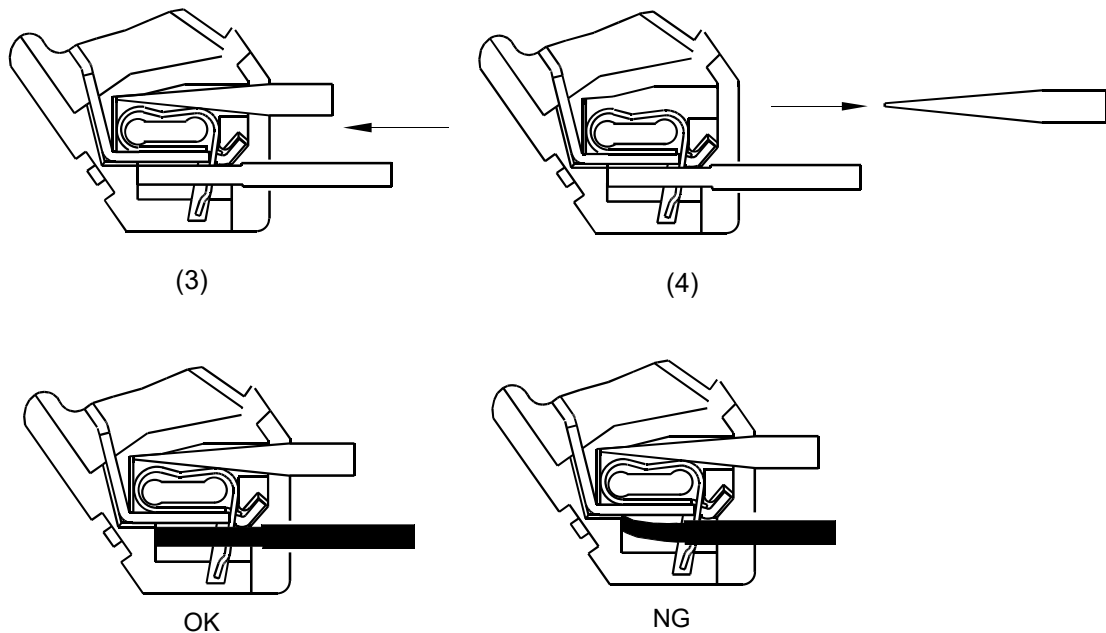


Figure 3

Do not insert the wire insulation.

Precautions For Use

4. Mounting relay.

Presents the socket anti-stripping spring in an open state (see Figure 6), and aligns the relay to the main socket cavity (Figure 7). Then turn the buckle counterclockwise and press the relay gently until it is fully plugged into the socket (Figure 8).

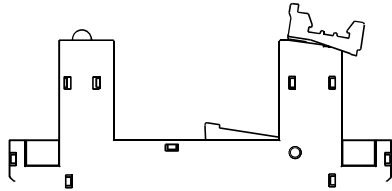


Figure 6

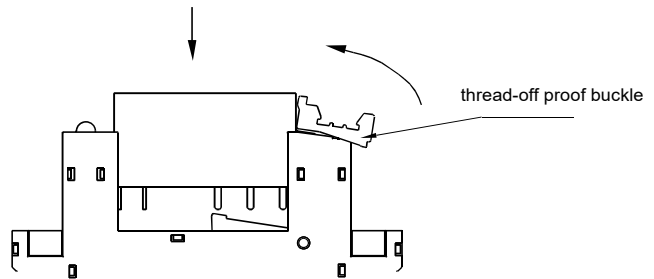


Figure 7

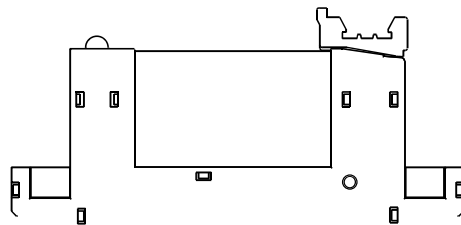


Figure 8

5. Disassembly relay

Disconnect the relay by pulling the anti lock buckle of the socket clockwise (see Figure 9).

Note: When disassembling the relay, please note that the relay may be suddenly ejected and cause the relay to fall or be lost. Therefore, when disassembling the relay, be sure to squeeze the relay by hand before Pull the anti-release catch clockwise to disassemble the relay.

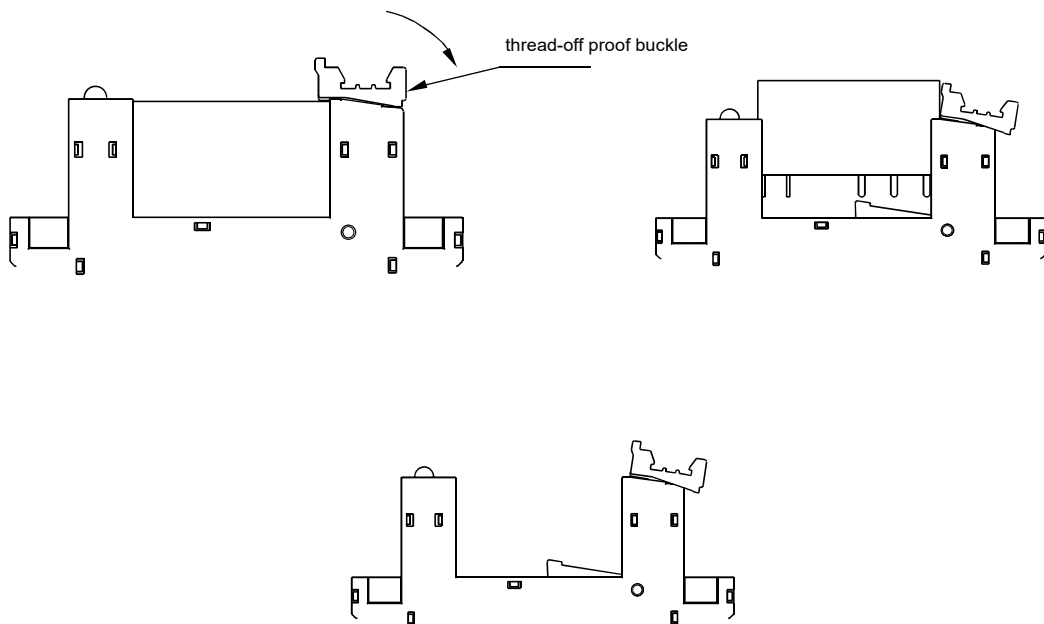
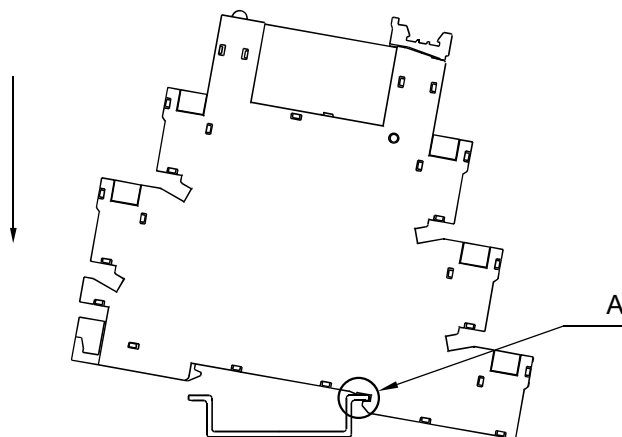


Figure 9

Precautions For Use

6. Installation socket

Insert the A of the socket into the rail and press it in the direction of the arrow.(Figure 11).



7. Disassembly socket

Insert a screwdriver into B, turn in the direction of the arrow, lift the socket and remove the socket.(Figure 12)

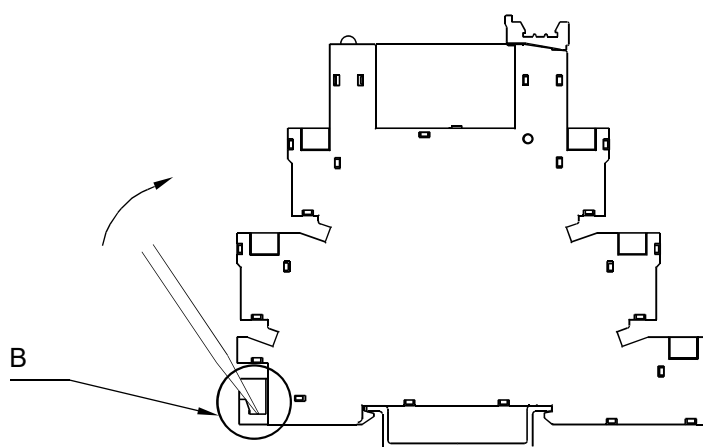


Figure 11

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.

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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