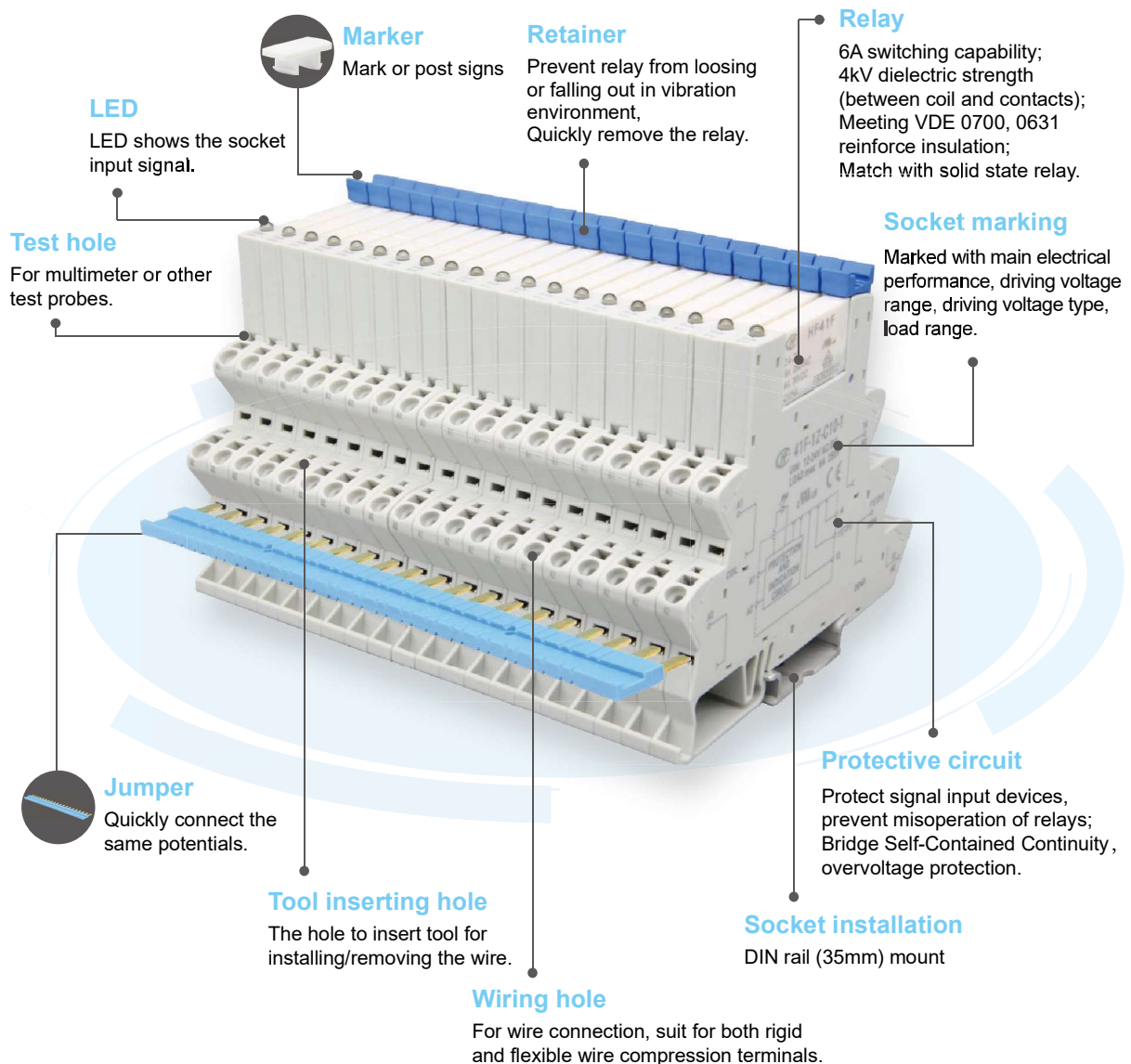


## Features

- 4000VAC insulation, 1000MΩ insulation resistance
- DIN rail mounting type
- Extremely narrow (only 6.2mm)
- 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.
- Built-in protection circuit can indicate the power status, protect the circuit, and expand the input voltage range of relays.

RoHS compliant



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



File No.: 40020043  
(Socket+41F-1Z-C2-□)



File No.:  
CQC17002175724(Relay)



HONGFA RELAY

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

2024 Rev. 1.00

## CONTACT DATA

Contact arrangement	1C
Contact rating(Res. load)	6A 250VAC/30VDC(1C)
Max. switching voltage	400VAC/125VDC
Max. switching current	6A

## CHARACTERISTICS

Insulation resistance		1000MΩ (500VAC)
Dielectric strength (RMS)	Between coil & contacts	4000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. volt.)		15ms max.
Release time (at nomi. volt.)		25ms max.
Humidity (RH)		5% to 85%RH
Ambient temperature		-40°C to 85°C
Indicator lamp		green LED
Overvoltage category		III
Pollution degree		2
Conductor cross-section		0.5mm² to 1.5mm²

**Notes:**1) Kits should not continuously be powered on at full load for more than 300h for a long term. If you have any questions, please contact us.

## COIL DATA

23°C

part number of kit	coil input voltage of kit	Operating temperature
HF41F-AS/12-Z□□□-□-1	12VAC/DC	-40°C to 70°C
HF41F-AS/18-Z□□□-□-1	18VAC/DC	
HF41F-AS/24-Z□□□-□-1	24VAC/DC	
HF41F-AS/48-Z□□□-□-2	48VAC/DC	
HF41F-AS/60-Z□□□-□-2	60VAC/DC	-40°C to 55°C
HF41F-AS/60-Z□□□-□-3	110~125VAC/DC	
HF41F-AS/60-Z□□□-□-4	220~240VAC/DC	
HF41F-AS/12-Z□□□-□-5	12VDC	-40°C to 70°C
HF41F-AS/18-Z□□□-□-5	18VDC	
HF41F-AS/24-Z□□□-□-5	24VDC	

## ORDERING INFORMATION

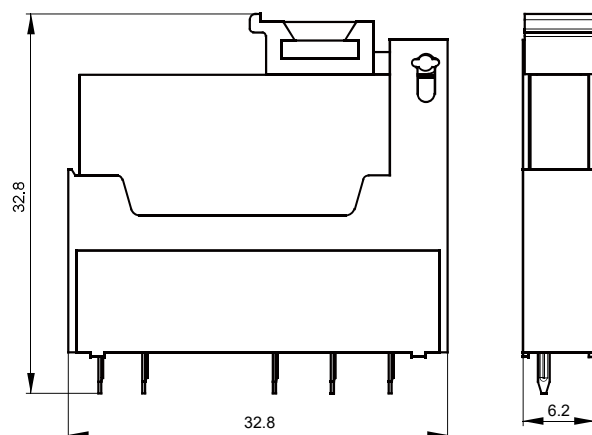
HF41F-AS /□ -Z □ □ □ -□ -□ (XXX)	
<b>Relay module</b>	HF41F: Relay AS: module
<b>Relay coil voltage</b>	12,18,24,48,60VDC
<b>Contact arrangement</b>	Z: 1 Form C
<b>Construction</b>	S: Plastic sealed Nil: Flux proofed
<b>Contact material</b>	T: AgSnO <sub>2</sub> Nil: AgNi
<b>Contact plating</b>	Nil: No gold plated G: Gold plated
<b>Matching socket</b>	A1: PCB terminal C2: Screw terminal C4: Cage spring relay terminal C10: Push in terminal
<b>Applicable relay coil and input voltage of socket</b>	A1: Nil 1: Adapted relay coil voltage: (12-24)VDC, input voltage of socket: (12-24)VAC/DC 2: Adapted relay coil voltage: (48-60)VDC, input voltage of socket: (48-60)VAC/DC 3: Adapted relay coil voltage: 60VDC, input voltage of socket: (110-125)VAC/DC 4: Adapted relay coil voltage: 60VDC, input voltage of socket: (220-240)VAC/DC 5: Adapted relay coil voltage: (6-24) VDC, input voltage of socket: (6-24)VDC
<b>Special code</b>	XXX: The customer special requirement Nil: Standard type

# OUTLINE DIMENSIONS, WIRING DIAGRAM

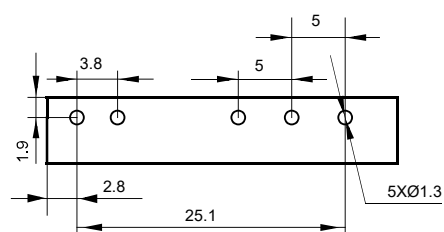
Unit: mm

## Outline Dimensions

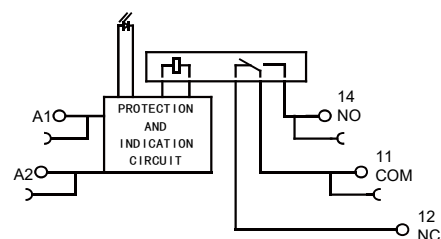
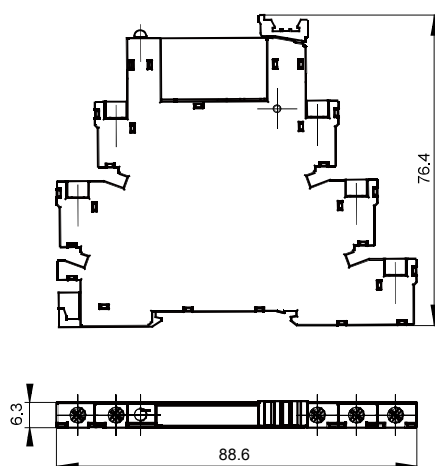
HF41F-AS/□-Z□□□-A1



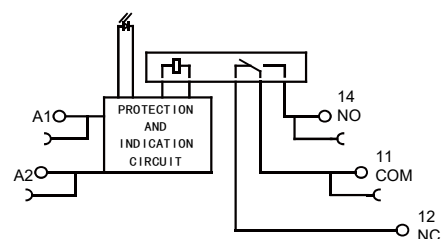
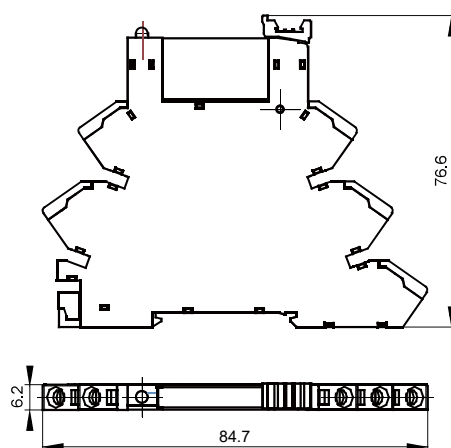
## Wiring Diagram(Bottom view)



HF41F-AS/□-Z□□□-C2-□



HF41F-AS/□-Z□□□-C4-□

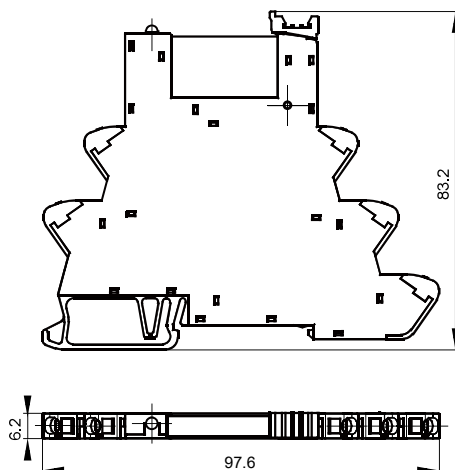


## OUTLINE DIMENSIONS, WIRING DIAGRAM

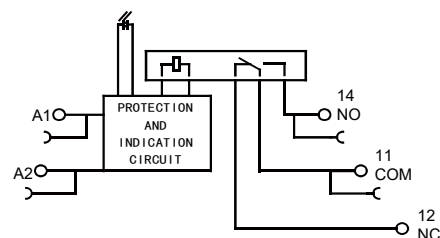
Unit: mm

Outline Dimensions

HF41F-AS/□-Z□□□-C10-□

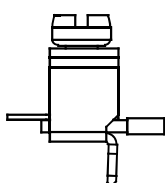


Wiring Diagram(Bottom view)



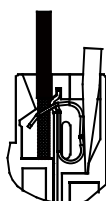
## COMPONENT ORDERING INFORMATION

Screw terminal




P/N	module type	relay type	socket type	Min. packing quantity	unit weight
44240050053	HF41F-AS/12-ZT-C2-1	HF41F/12-ZT	41F-1Z-C2-1	10pcs	Approx. 31.2g
44240050054	HF41F-AS/24-ZT-C2-1	HF41F/24-ZT			Approx. 31.2g
44240050055	HF41F-AS/60-ZT-C2-2	HF41F/60-ZT	41F-1Z-C2-2		Approx. 30.0g
44240050056	HF41F-AS/60-ZT-C2-3		41F-1Z-C2-3		Approx. 31.5g
44240050057	HF41F-AS/60-ZT-C2-4		41F-1Z-C2-4		Approx. 31.8g
44240050058	HF41F-AS/12-ZT-C2-5	HF41F/12-ZT	41F-1Z-C2-5		Approx. 31.2g
44240050059	HF41F-AS/24-ZT-C2-5	HF41F/24-ZT			Approx. 31.2g
44240050062	HF41F-AS/12-ZT-C2-5(012)	HF41F/12-ZT	41F-1Z-C2-5(012)		Approx. 31.2g
44240050063	HF41F-AS/24-ZT-C2-5(012)	HF41F/24-ZT			Approx. 31.2g

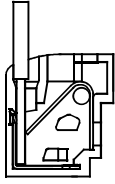
Cage Spring terminal



P/N	module type	relay type	socket type	Min. packing quantity	unit weight
44240050048	HF41F-AS/12-ZT-C4-1	HF41F/12-ZT	41F-1Z-C4-1	10pcs	Approx. 30.7g
44240050049	HF41F-AS/24-ZT-C4-1	HF41F/24-ZT			Approx. 30.7g
44240050050	HF41F-AS/60-ZT-C4-2	HF41F/60-ZT	41F-1Z-C4-2		Approx. 29.5g
44240050051	HF41F-AS/60-ZT-C4-3		41F-1Z-C4-3		Approx. 30.1g
44240050052	HF41F-AS/60-ZT-C4-4		41F-1Z-C4-4		Approx. 31.0g
44240050060	HF41F-AS/12-ZT-C4-5	HF41F/12-ZT	41F-1Z-C4-5		Approx. 30.7g
44240050061	HF41F-AS/24-ZT-C4-5	HF41F/24-ZT			Approx. 30.7g

## COMPONENT ORDERING INFORMATION

Push in terminal 



P/N	module type	relay type	socket type	Min. packing quantity	unit weight
44240210001	HF41F-AS/12-ZT-C10-1	HF41F/12-ZT	41F-1Z-C10-1	10pcs	Approx. 27.8g
44240210002	HF41F-AS/24-ZT-C10-1	HF41F/24-ZT			Approx. 27.8g
44240210003	HF41F-AS/60-ZT-C10-2	HF41F/60-ZT	41F-1Z-C10-2		Approx. 27.8g
44240210004	HF41F-AS/60-ZT-C10-3		41F-1Z-C10-3		Approx. 28.1g
44240210005	HF41F-AS/60-ZT-C10-4		41F-1Z-C10-4		Approx. 28.1g
44240210006	HF41F-AS/12-ZT-C10-5	HF41F/12-ZT	41F-1Z-C10-5		Approx. 27.4g
44240210007	HF41F-AS/24-ZT-C10-5	HF41F/24-ZT			Approx. 27.4g

### 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.

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