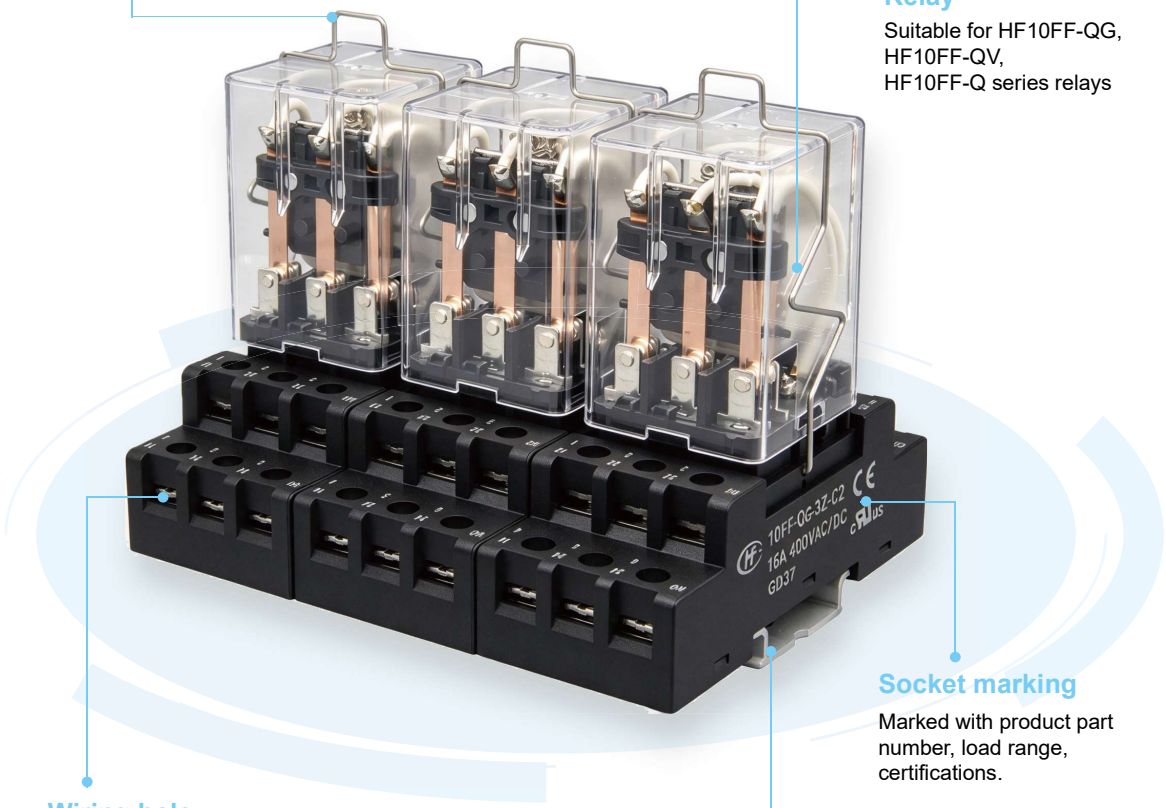
HF10FF-QG-AS RELAY MODULE

Features

- DIN rail or Screw mounting type available
- A range of insertable modules can be selected to implement energized indication and circuit protection features
- Accessory Available: Metallic retainer, Plug-in module
- Environmental friendly product(RoHS compliant)

RoHS compliant



Retainer

Prevent relay from loosing or falling out in vibration

Relay

Suitable for HF10FF-QG, HF10FF-QV, HF10FF-Q series relays

Socket marking

Marked with product part number, load range, certifications.

Wiring hole

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

Socket installation

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

File No.:
E253370(Socket), E134517(Relay)

CONTACT DATA

Contact arrangement	2Z,3Z
Contact rating(Res. load)	16A 400VAC/30VDC
Max. switching voltage	400VAC/30VDC
Max. switching current	16A

CHARACTERISTICS

Insulation resistance		1000MΩ(500VDC)
Dielectric strength	Between coil & contacts	2500VAC 1min
	Between open contacts	1500VAC 1min
	Between contact sets	2000VAC 1min
Operate time (at nomi. volt.)		⩽30ms(DC type)
Release time (at nomi. volt.)		⩽30ms(DC type)
Humidity(RH)		5% to 85% RH
Ambient temperature		-40˚C to 55˚C

COIL DATA

23˚C

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min	Max. Allowable Voltage VDC
006	4.8	0.6	7.20
012	9.6	1.2	14.4
024	19.2	2.4	28.8
048	38.4	4.8	57.6
060	48	6	72.0
100	80	10	120
110	88	11	132
120	96	12	144
220	176	22	264

Nominal Voltage VAC	Pick-up Voltage VAC max.	Drop-out Voltage VAC min	Max. Allowable Voltage VAC
006	4.8	1.8	7.2
012	9.6	3.6	14.4
024	19.2	7.2	28.8
048	38.4	14.4	57.6
110	88	33	132
120	96	36	144
110/120	88	36	132
220	176	69	264
230	184	69	276
220/240	176	72	264
240	192	72	288

ORDERING INFORMATION

HF10FF-QG-AS /230 □ -□Z □ 5 -□ -H□ (XXX)

Relay module
HF10FF: type without button
Q: QC terminal
G: High Load
AS: module

Coil voltage
DC: 6,12,24,48,60,100,110,120,220
AC: 6,12,24,48,110,110/120,120,220, 220/230,240

Coil Power **A:** AC(50HZor 60HZ) **D:** DC

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

Component code
Nil: Standard type
D: With LED
DJ: With LED, freewheeling diode(DC)

Contact material **5:** $AgSnO_2In_2O_3$

Socket installation **QC lead-out pin type 2Z/3Z selection:** C1, C2

Matching retaining clip **H2** for C1 **H3** for C2

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

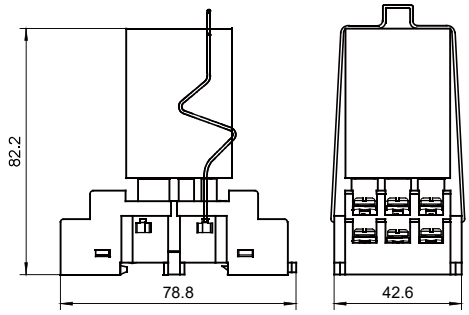
OUTLINE DIMENSIONS, WIRING DIAGRAM

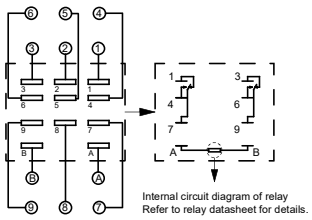
Unit: mm

Outline Dimensions

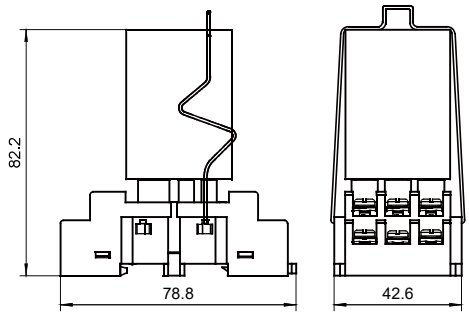
Wiring Diagram(Top view)

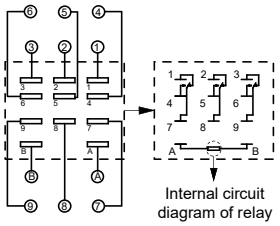
HF10FF-AS-QG/□□-2Z□5-C1-H2



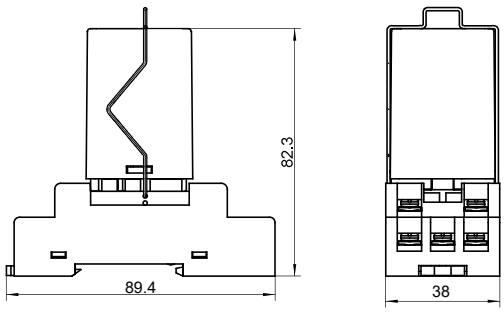


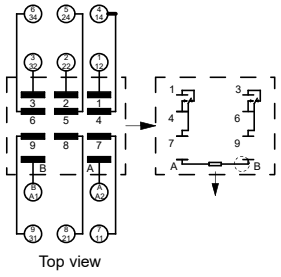
HF10FF-AS-QG/□□-3Z□5-C1-H2



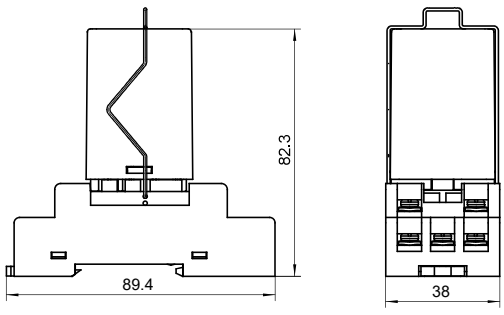


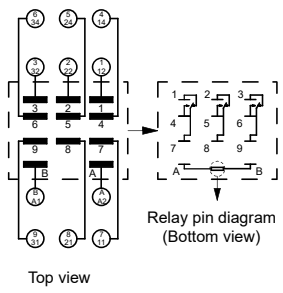
HF10FF-AS-QG/□□-2Z□5-C2-H2





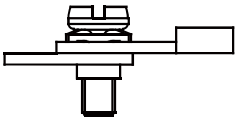
HF10FF-AS-QG/□□-3Z□5-C2-H2





COMPONENT ORDERING INFORMATION

Gasket screw Relay



P/N	Module type	Relay type	Socket type	Retainer type
——	HF10FF-AS-QG/012-2ZD5-C1-H2	HF10FF-QG/012-2ZD5	10F-QG-3Z-C1	10F-H2
——	HF10FF-AS-QG/024-2ZD5-C1-H2	HF10FF-QG/024-2ZD5		
——	HF10FF-AS-QG/110A-2ZD5-C1-H2	HF10FF-QG/110A-2ZD5		
——	HF10FF-AS-QG/220A-2ZD5-C1-H2	HF10FF-QG/220A-2ZD5		
——	HF10FF-AS-QG/012-3ZD5-C1-H2	HF10FF-QG/012-3ZD5		
——	HF10FF-AS-QG/024-3ZD5-C1-H2	HF10FF-QG/024-3ZD5		
——	HF10FF-AS-QG/110A-3ZD5-C1-H2	HF10FF-QG/110A-3ZD5		
——	HF10FF-AS-QG/220A-3ZD5-C1-H2	HF10FF-QG/220A-3ZD5		
——	HF10FF-AS-QG/012-2ZD5-C2-H3	HF10FF-QG/012-2ZD5	10F-QG-3Z-C2	10FF-H3
——	HF10FF-AS-QG/024-2ZD5-C2-H3	HF10FF-QG/024-2ZD5		
——	HF10FF-AS-QG/110A-2ZD5-C2-H3	HF10FF-QG/110A-2ZD5		
——	HF10FF-AS-QG/220A-2ZD5-C2-H3	HF10FF-QG/220A-2ZD5		
——	HF10FF-AS-QG/012-3ZD5-C2-H3	HF10FF-QG/012-3ZD5		
——	HF10FF-AS-QG/024-3ZD5-C2-H3	HF10FF-QG/024-3ZD5		
——	HF10FF-AS-QG/110A-3ZD5-C2-H3	HF10FF-QG/110A-3ZD5		
——	HF10FF-AS-QG/220A-3ZD5-C2-H3	HF10FF-QG/220A-3ZD5		

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 ±1mm; When the 20mm < dimensions are between 50mm ≤, the tolerance is ±0.5mm;When the overall dimension of 5mm < between ≤ 20mm, the tolerance is ±0.4mm, and when the external dimension is ≤5mm, the tolerance is ±0.3mm;
9、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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