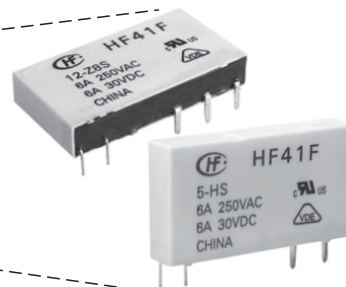
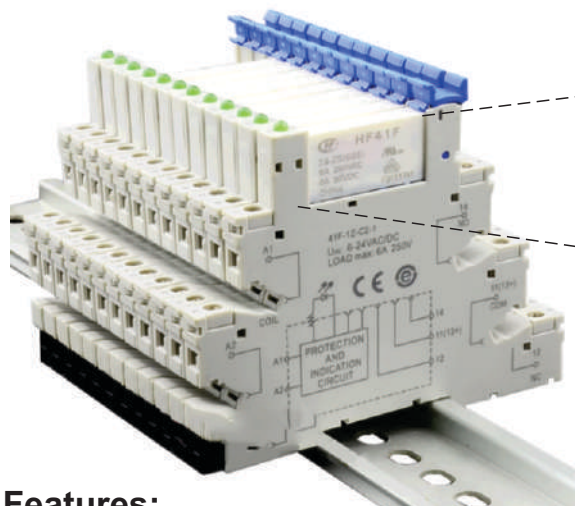




RELÉS ENCHUFABLES / ELECTROMECHANICALS



HF41F

SUBMINIATURE POWER RELAY

Features:

Slim size (width 5mm) / High breakdown voltage between coil and contacts / Sockets available
Surge voltage up to 6 kV between coil and contacts / High sensitive: Approx. 170 mW
1 Form A and 1 Form C configurations / Environmental friendly product (RoHS compliant)
Outline dimensions: 28.0 x 5.5 x 15.0 mm

CONTACT DATA

Contact arrangement	1A, 1C
Contact resistance	No gold plated: 100mΩ max. (at 1A 6VDC) Gold plated: 30mΩ max. (at 1A 6VDC)
Contact material	AgSnO ₂ , AgNi
Contact rating (Res. load)	6A 250VAC / 30VDC
Max. switching voltage	400VAC / 125VDC
Max. switching current	6A
Max. switching power	1500VA / 180W
Mechanical endurance	1 x 10 ⁷ OPS
Electrical endurance	H type: 6 x 10 ⁴ OPS (6A 250VAC/30VDC, Resistive load, AgNi, at 85°C, 1s on 9s off) Z type: 3 x 10 ⁴ OPS (6A 250VAC/30VDC, Resistive load, AgNi, at 85°C, 1s on 9s off) 1 x 10 ⁴ OPS (6A 250VAC/30VDC, Resistive load, AgNi, at 85°C, 1s on 9s off)

SAFETY APPROVAL RATINGS

UL/CUL	6A 30VDC at 85°C 6A 277VAC at 85°C R300 B300
VDE	6A 30VDC at 85°C 6A 250VAC at 85°C

Notes:

- 1) All values unspecified are room temperature.
- 2) Only typical loads are listed above. Other load specifications can be available upon request.

COIL

Coil power	5VDC to 24VDC: Approx. 170mW 48VDC, 60VDC: Approx. 210mW
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COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Voltage VDC ²	Coil Resistance Ω
5	3.75	0.25	7.5	147x(1+/-10%)
6	4.50	0.30	9.0	212x(1+/-10%)
9	6.75	0.45	13.5	476x(1+/-10%)
12	9.00	0.60	18	848x(1+/-10%)
18	13.5	0.90	27	1906x(1+/-15%)
28	18.0	1.20	36	3390x(1+/-15%)
48 ³	36.0	2.40	72	10600x(1+/-15%)
60 ³	45.0	3.00	90	16600x(1+/-15%)

Notes:

- 1) When require pick-up voltage <70% nominal voltage, especial order allowed.
- 2) Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.
- 3) For products with rated voltage >48V, measures should be taken to prevent coil overvoltage in order to protect coil in test and application (eg. Connect diodes in parallel)

CHARACTERISTICS

Insulation resistance		1000M Ω (at 500VDC)
Dielectric strength	Between coil & contacts	4000VAC 1 min
	Between open contacts	1000VAC 1 min
Operate time (at nomi. volt.)		8ms max.
Release time (at nomi. volt.)		4ms max.
Shock resistance ¹	Functional	49m/s ²
	Destructive	980m/s ²
Vibration resistance ¹		10Hz to 55Hz 1mm DA
Humidity		5% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 5g
Construction		Plastic sealed, Flux proofed

Notes:

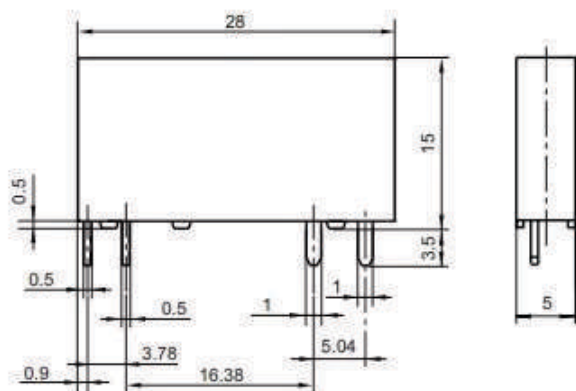
- 1) Index is that of relay without socket.
- 2) The data shown above are initial values.
- 3) Please do not install a SPDT (1 Form C) type relay on either of the smallest sides or facing downward.
- 4) UL insulation system: Class A.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

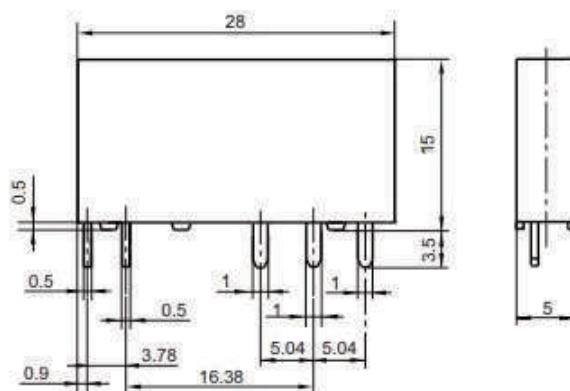
Outline Dimensions

1 Form A

Vertical version



1 Form C



41F Sockets RELAY

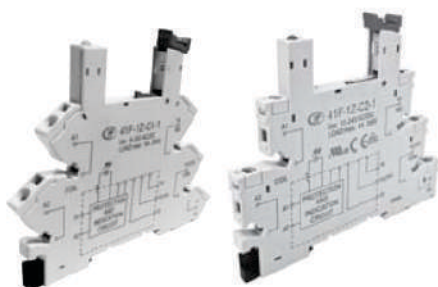
SOCKETS



File No.: E253370



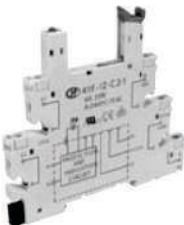
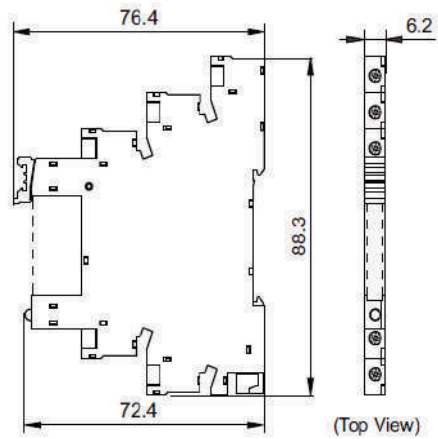
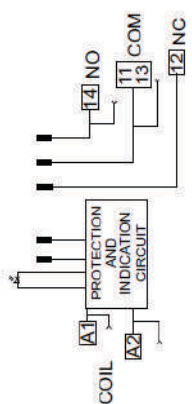

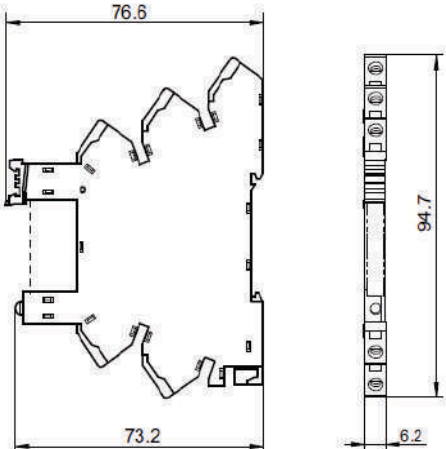
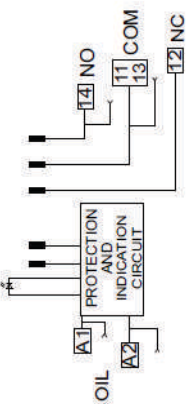

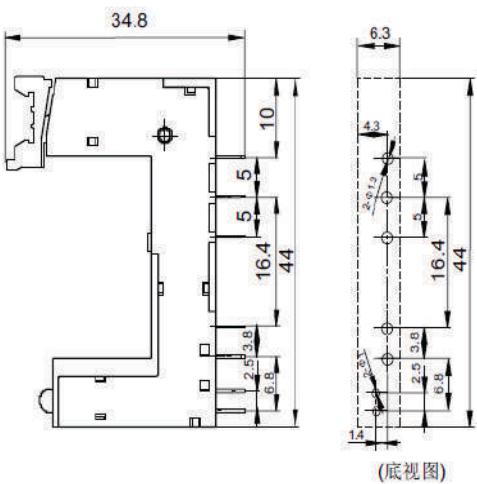

File No.: 40020043



Features

- The dielectric strength can reach 4000VAC and the insulation resistance is 1000M Ω
- With finger protection device
- Ensure secure retention and easy ejection of relays
- Built-in protection circuit can indicate the power status, protect the circuit and expand the range of relay input voltage
- Components available: marker, jumper and separator
- Applicable relay types: HF41F
- Environmental friendly product (RoHS compliant)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Socket	Outline Dimensions	Wiring Diagram	Accessory Available
<p>41F-1Z-C2-1/2/3/4/5</p>  <p>Screw terminal, DIN rail mounting, With finger protection device Certified by VDE and UL/CUL</p>	 <p>(Top View)</p>		<p>*marker 41F-M 41F-M1</p> <p>*jumper 41F-J1(blue) 41F-J1R(red) 41F-J1B(black)</p> <p>*separator 41F-S</p>
<p>41F-1Z-C4-1/2/3/4/5</p>  <p>Spring-loaded terminal, DIN rail mounting, With finger protection device</p>			<p>*marker 41F-M 41F-M1</p> <p>*jumper 41F-J1(blue) 41F-J1R(red) 41F-J1B(black)</p> <p>*separator 41F-S</p>
<p>41F-1Z-A2-1/2</p>  <p>PCB terminal, PCB mounting</p>	 <p>(底视图)</p>		<p>*marker 41F-M</p>

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

PRECAUTIONS FOR USE

a) Mounting Relay:

Presents the socket in an open state (FIG. 7) and aligns the relay to the main socket cavity (FIG. 8) Then turn the buckle counterclockwise and press the relay gently until it is fully plugged into the socket (FIG. 9).

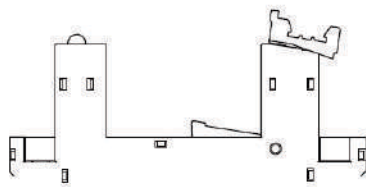


Figure 7

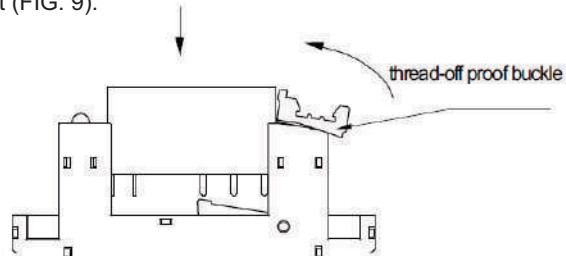


Figure 8

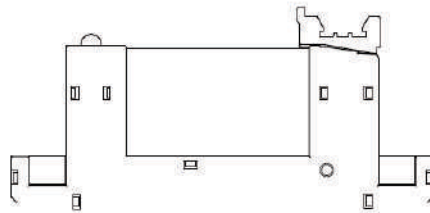
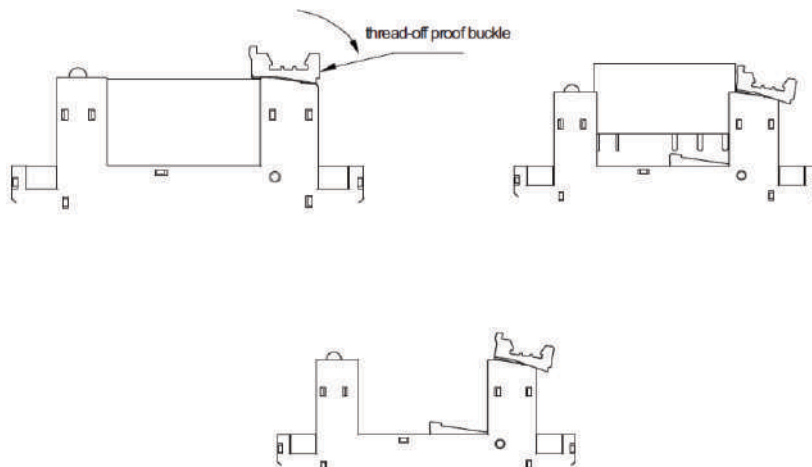


Figure 9

b) Disassembly Relay:

Disconnect the relay by pulling the anti lock buckle of the socket clockwise



c) Installation Socket / Disassembly Socket:

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

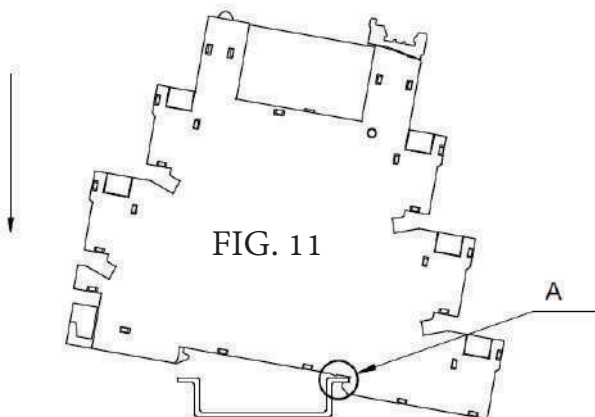


FIG. 11

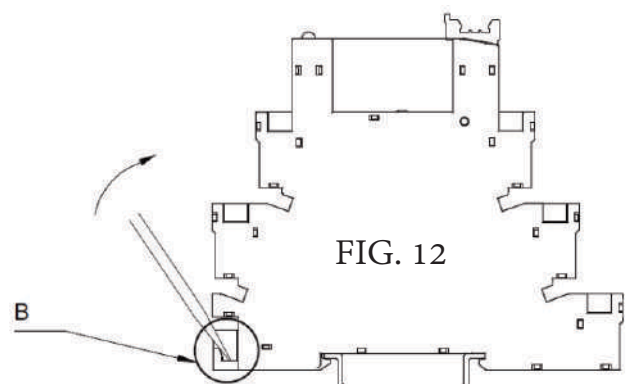


FIG. 12

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