

HF18FF/HF18FH MINIATURE INTERMEDIATE POWER RELAY



File No.:E133481



File No.:R50147087



File No.:CQC09002030026 (DC type)
CQC09002030027 (AC type)



Features

- Various relay types, include the LED, diode, button, indicator
- 2 to 4 pole configurations
- Various terminals available
- Gold plated contact available
- Transparent dust cover, various installation types
- Environmental friendly product (RoHS compliant)
- Automatic production
- High capacity
- Outline Dimensions: without button 28.0mm x 21.5mm x 36.0mm
with button 28.0mm x 21.5mm x 37.0mm

CONTACT DATA

Contact arrangement	2C, 3C, 4C
Contact resistance ¹⁾	100mΩ max. (at 1A 6VDC)
Contact material	AgNi, AgSnO ₂
Contact rating (Res. load)	12A 250VAC/30VDC(2Z-G)
	10A 250VAC/30VDC(3Z-G)
	7A 250VAC/30VDC(2Z/3Z)
	6A 250VAC/30VDC(4Z)
Max. switching voltage	250VAC / 30VDC
Max. switching current	12A(2Z-G), 10A(3Z-G), 7A(2Z/3Z), 6A(4Z)
Max. switching power	3000VA/360W(2Z-G), 2500VA/300W(3Z-G) 1750VA/210W(2Z/3Z), 1500VA/180W(4Z)
Mechanical endurance	2 x 10 ⁷ OPS
Electrical endurance	1 x 10 ⁵ OPS (room temperature) 5 x 10 ⁴ OPS (70°C)

Notes: 1) The data shown above are initial values.

CHARACTERISTICS

Insulation resistance	1000MΩ (at 500VAC)	
Dielectric strength	Between coil & contacts	1500VAC 1min
	Between open contacts	1000VAC 1min
	Between contact sets	1500VAC 1min
Operate time (at nomi. volt.)	20ms max.	
Release time (at nomi. volt.)	DC type: 15ms max.	
	AC type: 25ms max.	
Temperature rise (no-load, at nomi. volt.)	85K max.	
Shock resistance	Functional	100m/s ²
	Destructive	1000m/s ²
Vibration resistance	10Hz to 55Hz 1mm DA	
Humidity	98% RH, 40°C	
Ambient temperature	-40°C to 70°C	
Termination	PCB, Plug-in	
Unit weight	Approx. 35.6g	
Construction	Dust protected	

Notes: 1) The data shown above are initial values.

COIL

Coil power	DC type: Approx. 0.8W to 1.1W; AC type: Approx. 0.9VA to 1.5VA
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HONGFA RELAY

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

2018 Rev. 1.01

COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC max. ²⁾	Drop-out Voltage VDC min. ²⁾	Max. Voltage VDC ³⁾	Coil Resistance Ω
5	4.0	0.5	5.5	28 x (1±10%)
6	4.8	0.6	6.6	40 x (1±10%)
9	7.2	0.9	9.9	90 x (1±10%)
12	9.6	1.2	13.2	160 x (1±10%)
21	16.8	2.1	23.1	490 x (1±10%)
24	19.2	2.4	26.4	640 x (1±10%)
30	24.0	3.0	33.0	1000 x (1±10%)
36	28.8	3.6	39.6	1440 x (1±10%)
48	38.4	4.8	52.8	2560 x (1±15%)
60	48.0	6.0	66.0	4000 x (1±15%)
110	80.0	11.0	121.0	12250 x (1±15%)
125	100.0	12.5	137.5	17360 x (1±15%)
220	176.0	22.0	242.0	53360 x (1±15%)

Nominal Voltage VAC	Pick-up Voltage VAC max. ²⁾	Drop-out Voltage VAC min. ²⁾	Max. Voltage VAC ³⁾	Coil Resistance Ω
6	4.8	1.8	6.6	11 x (1±10%)
12	9.6	3.6	13.2	44 x (1±10%)
24	19.2	7.2	26.4	177 x (1±10%)
36	28.8	10.8	39.6	400 x (1±10%)
48	38.4	14.4	52.8	708 x (1±10%)
60	48.0	18.0	66.0	1100 x (1±10%)
110	80.0	33.0	121	3400 x (1±15%)
120	88.0	36.0	132	4080 x (1±15%)
220	160.0	66.0	242	13600 x (1±15%)
240	176.0	72.0	264	16300 x (1±15%)
277	221.6	83.1	304.7	23590 x (1±15%)

Notes: 1) The data shown above are initial values.

2) Under ambient temperature, applying more than 80% of rating voltage to coil, relay will take action accordingly. But in order to meet the stated product performance, please apply rated voltage to coil.

3) Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

SAFETY APPROVAL RATINGS

UL/CUL	2 Form C-G	12A 250VAC/30VDC
	3 Form C-G	10A 250VAC/30VDC
	2 Form C/3 Form C	7A 250VAC/30VDC
	4 Form C	6A 250VAC/30VDC
Tüv	2 Form C-G	12A 250VAC/30VDC
	3 Form C-G	10A 250VAC/30VDC
	2 Form C/3 Form C	7A 250VAC/30VDC
	4 Form C	6A 250VAC/30VDC
CQC	2 Form C-G	12A 250VAC/30VDC
	3 Form C-G	10A 250VAC/30VDC
	2 Form C/3 Form C	7A 250VAC/30VDC
	4 Form C	6A 250VAC/30VDC

Notes: 1) All values unspecified are at room temperature.

2) Only typical loads are listed above. Other load specifications can be available upon request.

ORDERING INFORMATION

HF18FF		-G	/A	240	-2Z	1	1	G	D	(XXX)
Type	HF18FF: without button HF18FH: with button									
series code	Nil: Standard G: High capacity									
Coil voltage form	A: AC Nil: DC									
Coil voltage	DC⁽¹⁾: 005 ~ 220VDC AC⁽²⁾: 006 ~ 277VAC									
Contact arrangement	2Z: 2 Form C 3Z: 3 Form C 4Z: 4 Form C									
Mounting Termination (See the following)	1: Socket 2: PCB 5: Flange-Mounting									
Contact material	3: AgNi T: AgSnO ₂									
Contact plating	Nil: No gold plated G: Gold plated									
Component code	D: with LED J: with diode R: with CR circuit DJ: with LED and diode DR: with LED and CR circuit									
Special code³⁾	XXX: Customer special requirement Nil: Standard									

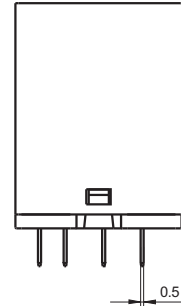
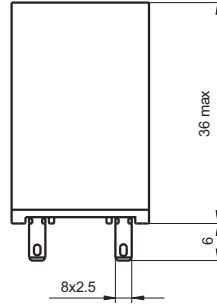
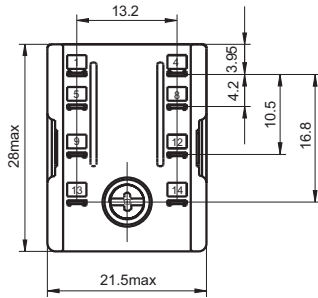
Notes: 1) DC coil specifications:005、006、009、012、021、024、030、036、048、060、110、125、220.

2) AC coil specifications:006、012、024、036、048、060、110、120、220、240、277.

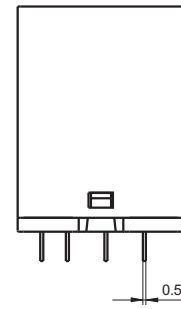
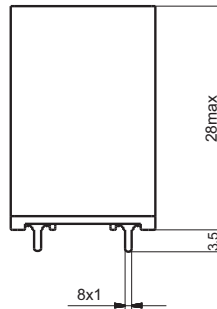
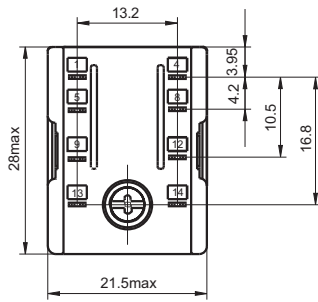
3) The customer special requirement express as special code after evaluating by Hongfa.

Outline Dimensions

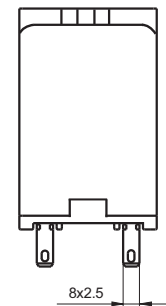
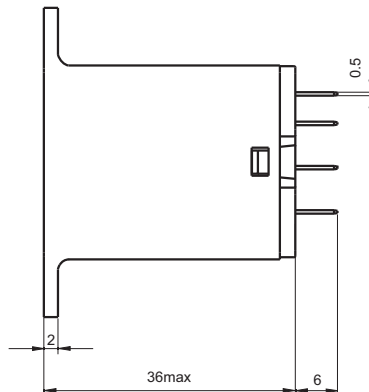
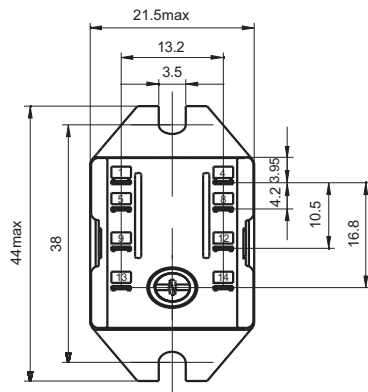
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HF18FF-1/1111-2Z21111111

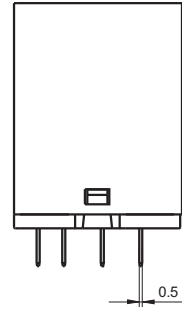
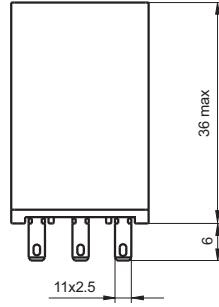
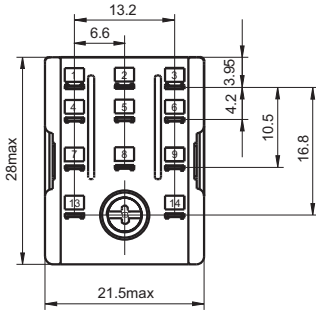


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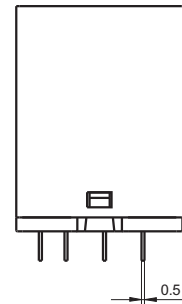
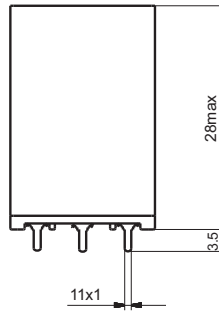
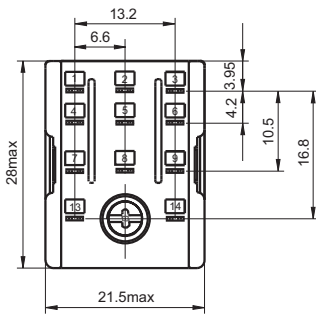


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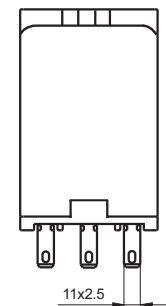
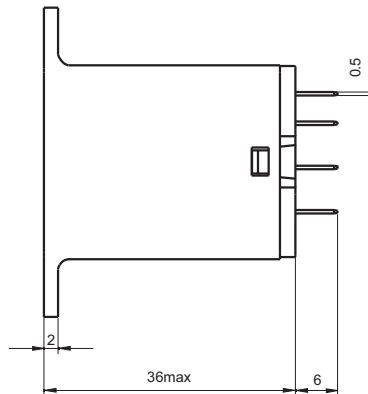
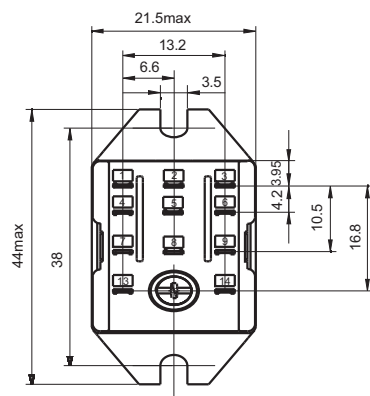
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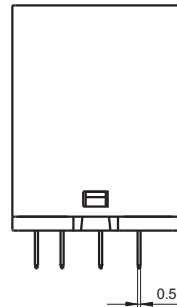
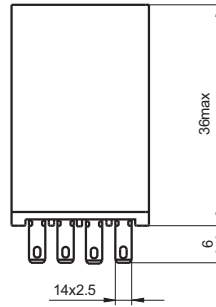
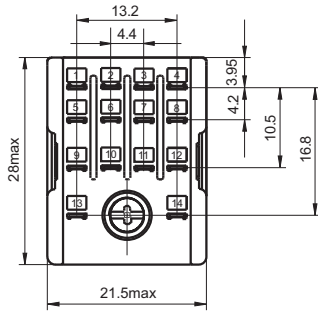


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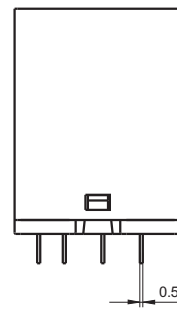
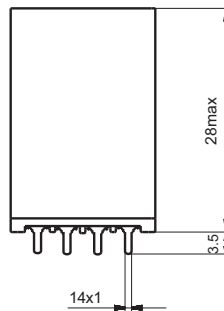
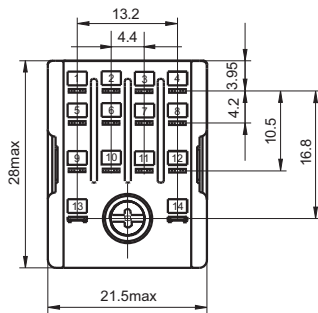


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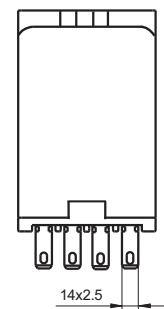
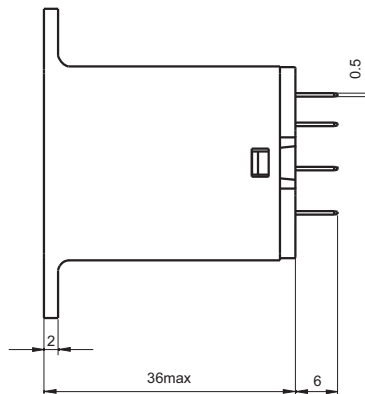
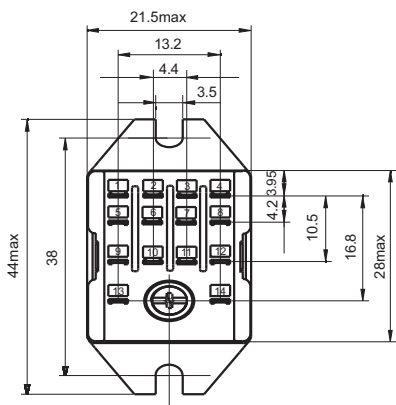
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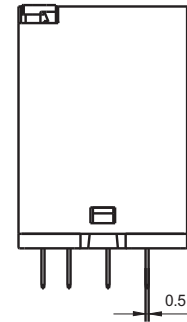
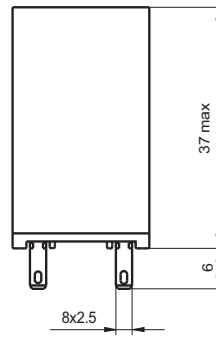
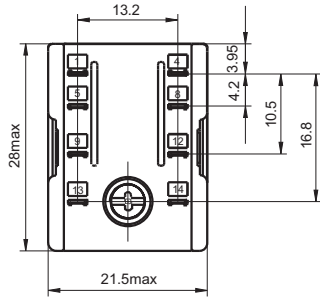


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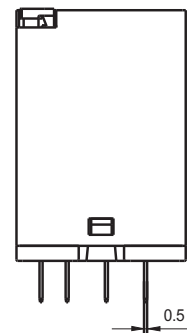
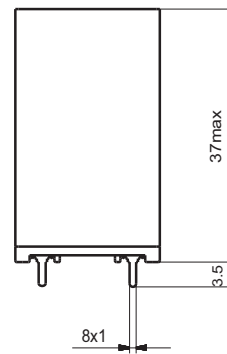
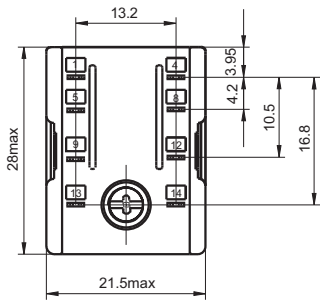


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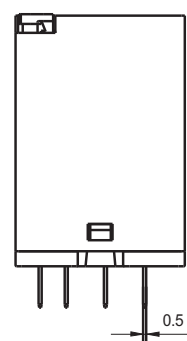
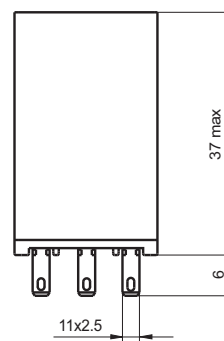
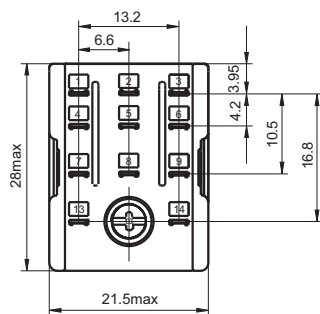
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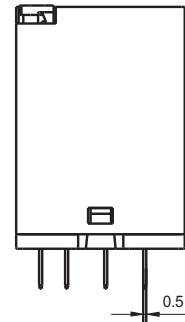
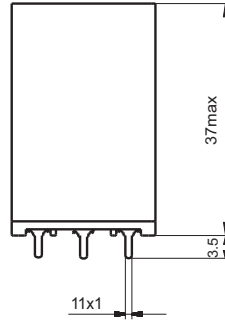
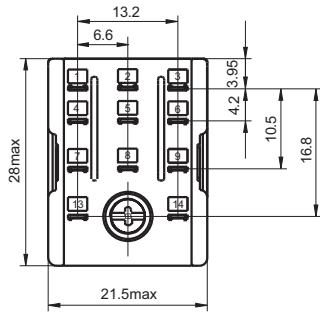


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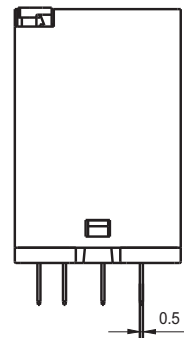
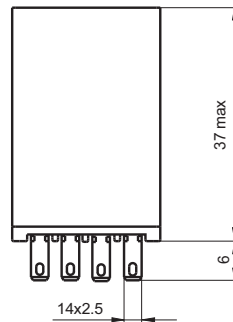
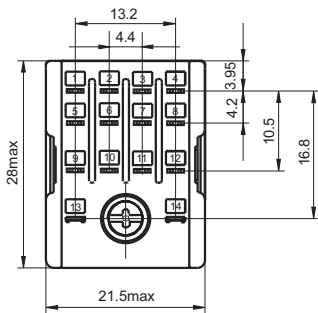


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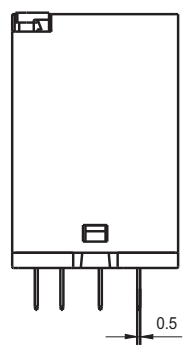
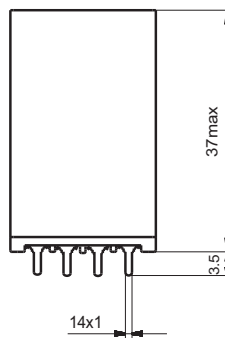
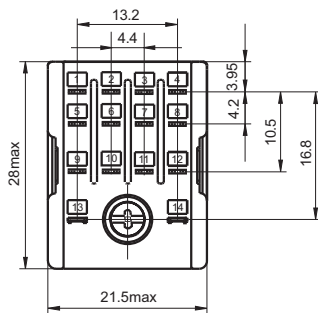
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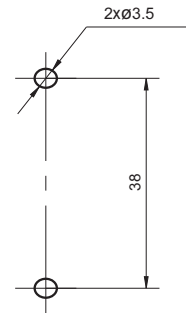
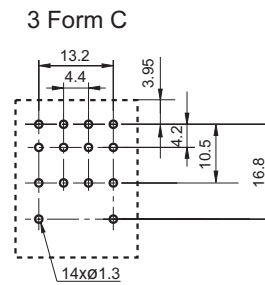
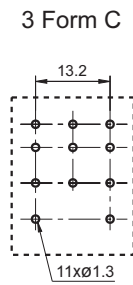
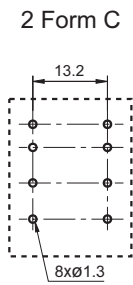


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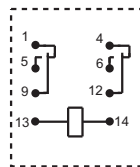
PCB Layout
(Bottom view)

Mounting Holes

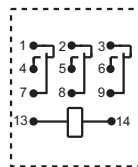


Wiring Diagram
(Bottom view)

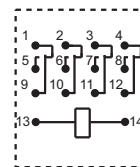
2 Form C



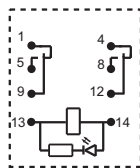
3 Form C



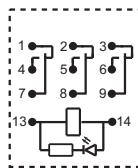
4 Form C



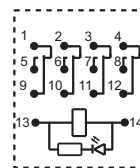
2 Form C (With LED)



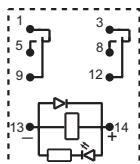
3 Form C (With LED)



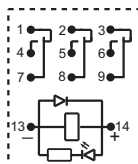
4 Form C (With LED)



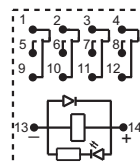
2 Form C
(DC, With fly-wheel diode)



3 Form C
(DC, With fly-wheel diode)



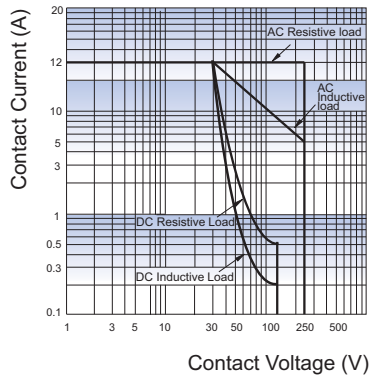
4 Form C
(DC, With fly-wheel diode)



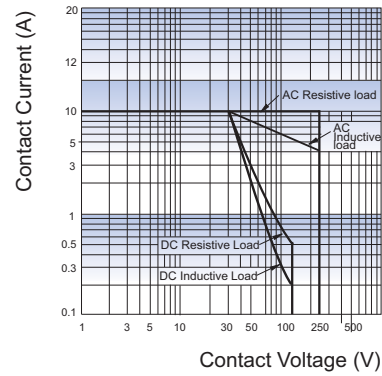
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
 2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.
 3) DC products with fly-wheel diode, please confirm the positive and negative terminals before wiring.

CHARACTERISTIC CURVES

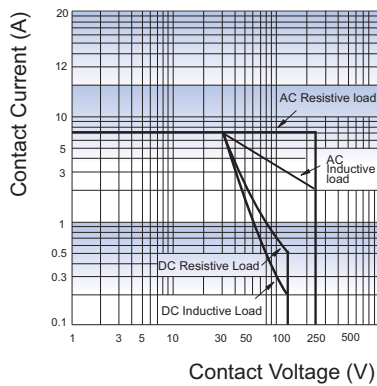
MAXIMUM SWITCHING POWER
(2 Form C-G)



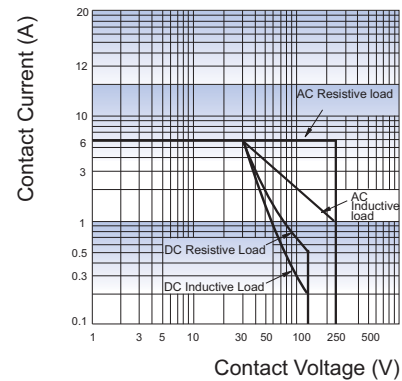
MAXIMUM SWITCHING POWER
(3 Form C-G)



MAXIMUM SWITCHING POWER
(2 Form C/3 Form C)



MAXIMUM SWITCHING POWER
(4 Form C)



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
- Environmental friendly product (RoHS compliant)


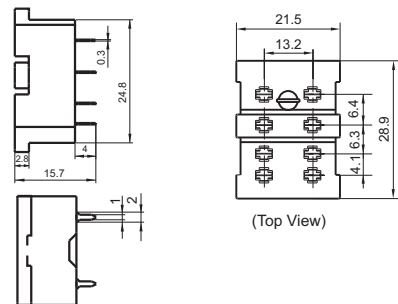
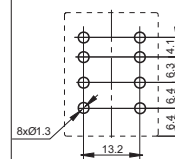

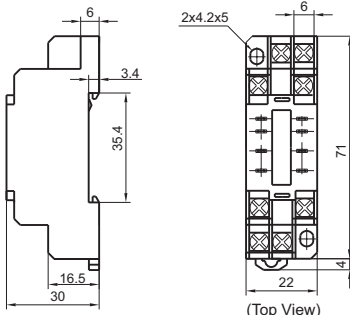
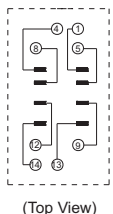
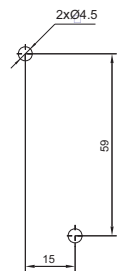
CHARACTERISTICS

Type	Nominal Voltage	Nominal Current	Ambient Temperature	Dielectric Strength min.	Screw Torque	Wire Strip Length
18FF-2Z-A2	250VAC	7A	-40 °C ~ 70°C	2000VAC	—	—
18FF-2Z-C1	250VAC	7A	-40 °C ~ 70°C	2000VAC	0.8N · m	7mm
18FF-2Z-C2	250VAC	7A	-40 °C ~ 70°C	2000VAC	0.8N · m	7mm
18FF-2Z-C4	250VAC	7A	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm
18FF-2Z-C5	250VAC	7A	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm
18FF-2Z-C8	250VAC	7A	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm
18FF-2Z-C9	250VAC	7A	-40 °C ~ 70°C	2000VAC	—	7mm
18FF-3Z-C4	250VAC	7A*	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm
18FF-3Z-C5	250VAC	7A*	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm
18FF-4Z-A2	250VAC	7A*	-40 °C ~ 70°C	2000VAC	—	—
18FF-4Z-C1	250VAC	7A*	-40 °C ~ 70°C	2000VAC	0.8N · m	7mm
18FF-4Z-C2	250VAC	7A*	-40 °C ~ 70°C	2000VAC	0.8N · m	7mm
18FF-4Z-C4	250VAC	7A*	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm
18FF-4Z-C5	250VAC	7A*	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm
18FF-4Z-C9	250VAC	7A*	-40 °C ~ 70°C	2000VAC	—	7mm
18FF-2Z-C5(734)	250VAC	12A	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm
18FF-3Z-C5(734)	250VAC	10A	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm
18FZ-2Z-C2	250VAC	7A	-40 °C ~ 70°C	2000VAC	0.6N · m	7mm

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


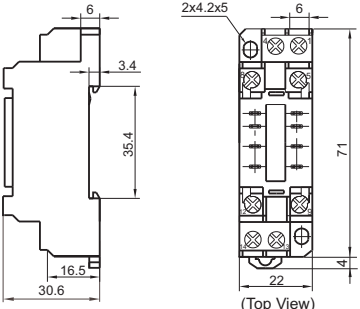
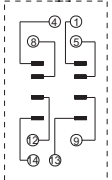
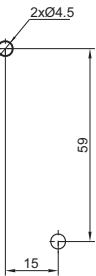

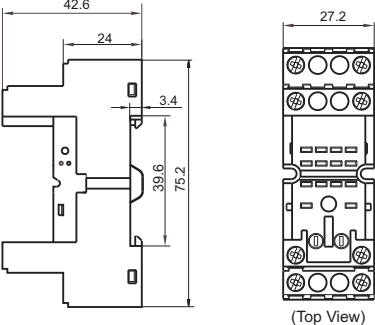
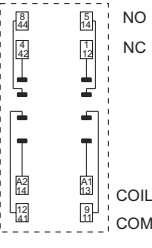
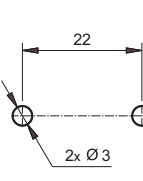

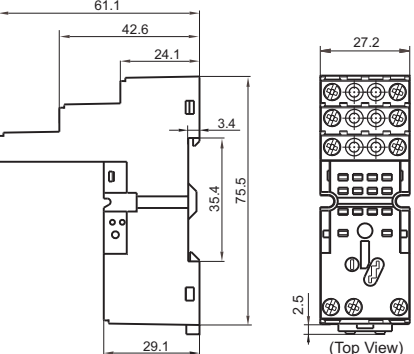
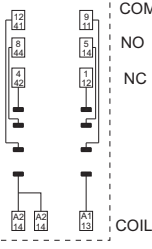
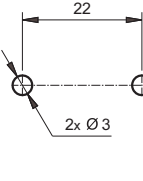

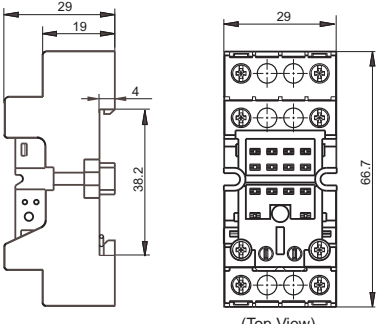
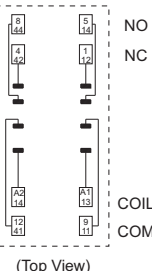
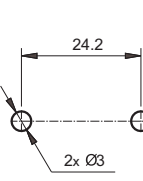
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Socket	Outline Dimensions	Wiring Diagram	PCB Layout	Components Available
<p>18FF-2Z-A2</p>  <p>PCB Terminal, PCB mounting Applicable for 2 poles</p>	 <p>(Top View)</p>			<p>metallic retainer 18FF-H1</p>
<p>18FF-2Z-C1</p>  <p>Screw Terminal, DIN rail or Screw mounting, Without finger protection device Applicable for 2 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>metallic retainer 18FF-H2 (be used in sets)</p>


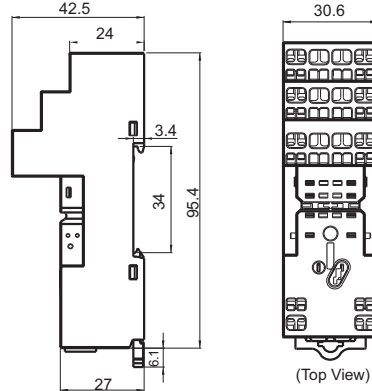
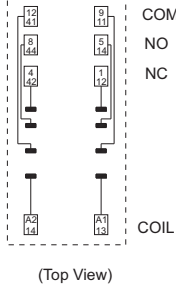

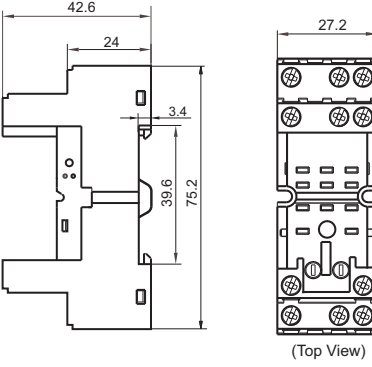
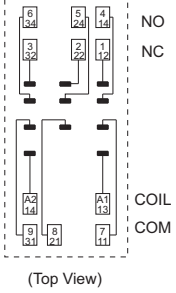
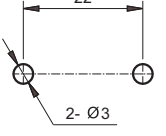

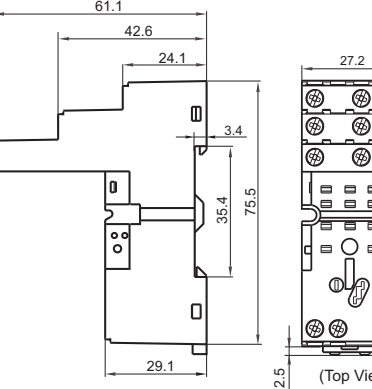
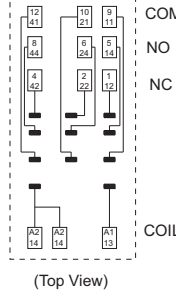
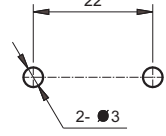

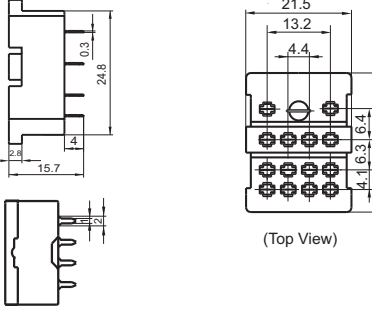
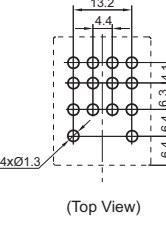
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Socket	Outline Dimensions	Wiring Diagram	PCB Layout	Components Available
<p>18FF-2Z-C2</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 2 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>metallic retainer 18FF-H2 (be used in sets)</p>
<p>18FF-2Z-C4</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 2 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>plastic retainer 18FF-H4 metallic retainer 18FF-H5 marker 18FF-M1 plug-in module HFAA to HFHU*</p>
<p>18FF-2Z-C5</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 2 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>plastic retainer 18FF-H4 metallic retainer 18FF-H5 marker 18FF-M1 plug-in module HFAA to HFHU*</p>
<p>18FF-2Z-C8</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 2 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>plastic retainer 18FF-H4 marker 18FF-M3</p>


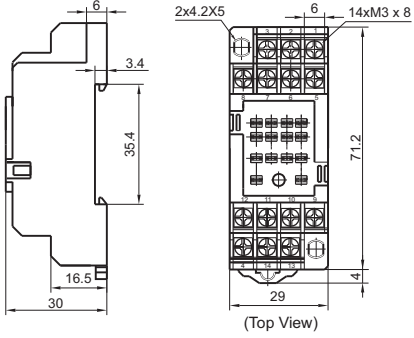
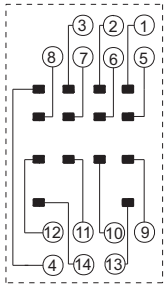
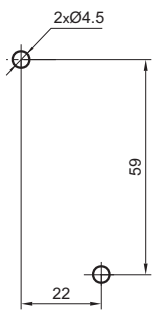

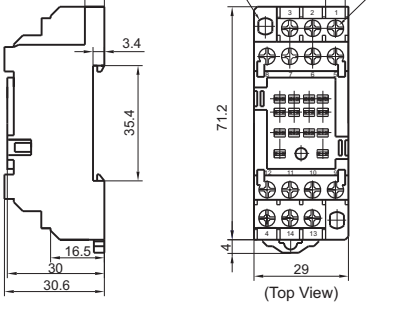
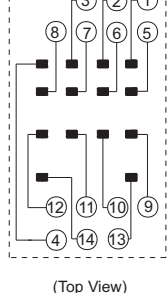
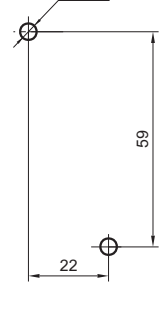

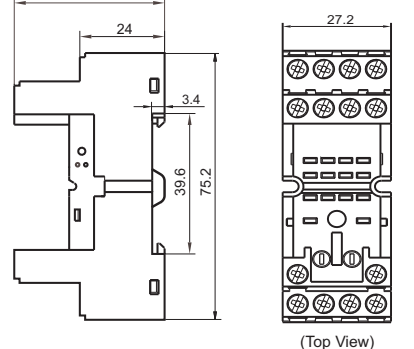
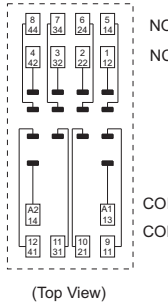
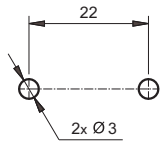

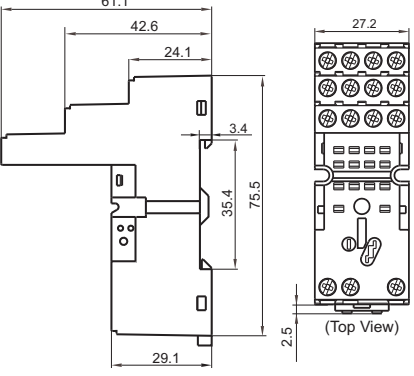
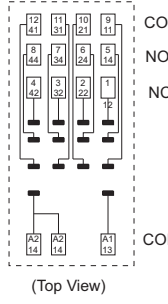
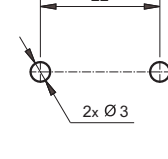
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Socket	Outline Dimensions	Wiring Diagram	PCB Layout	Components Available
<p>18FF-2Z-C9</p>  <p>Spring-loaded terminal DIN rail mounting With finger protection device Applicable for 2 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>plastic retainer 18FF-H4</p> <p>metallic retainer 18FF-H5</p> <p>plug-in module HFAA ~ HFHU*</p> <p>marker 18FF-M3</p>
<p>18FF-3Z-C4</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 3 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>plastic retainer 18FF-H4</p> <p>metallic retainer 18FF-H5</p> <p>marker 18FF-M1</p> <p>plug-in module HFAA to HFHU*</p>
<p>18FF-3Z-C5</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 3 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>plastic retainer 18FF-H4</p> <p>metallic retainer 18FF-H5</p> <p>marker 18FF-M1</p> <p>plug-in module HFAA to HFHU*</p>
<p>18FF-4Z-A2</p>  <p>PCB Terminal, PCB mounting Applicable for 4 poles</p>	 <p>(Top View)</p>		 <p>(Top View)</p>	<p>metallic retainer 18FF-H1</p>


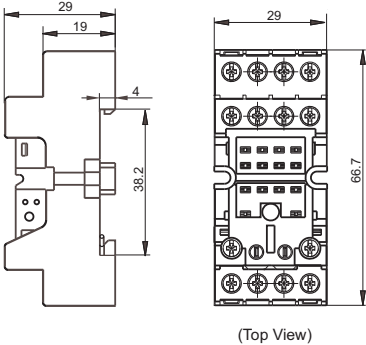
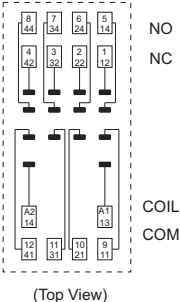
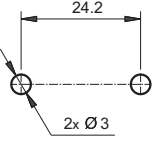

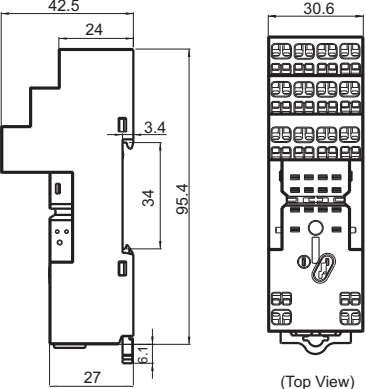
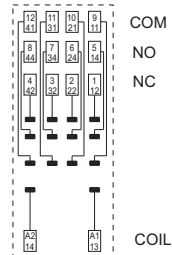
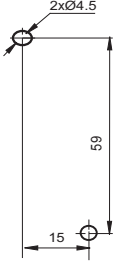

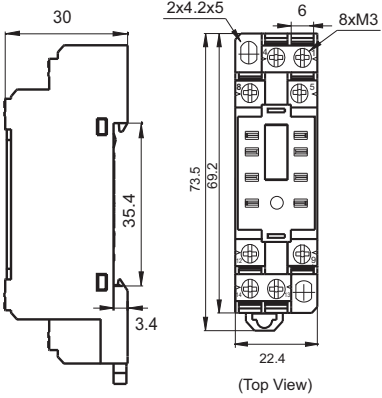
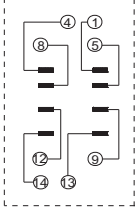
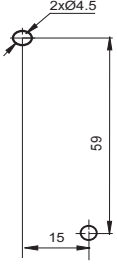
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Socket	Outline Dimensions	Wiring Diagram	PCB Layout	Components Available
<p>18FF-4Z-C1</p>  <p>Screw Terminal, DIN rail or Screw mounting, Without finger protection device Applicable for 4 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>metallic retainer 18FF-H2 (be used in sets)</p>
<p>18FF-4Z-C2</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 4 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>metallic retainer 18FF-H2 (be used in sets)</p>
<p>18FF-4Z-C4</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 4 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>plastic retainer 18FF-H4 metallic retainer 18FF-H5 marker 18FF-M1 plug-in module HFAA to HFHU*</p>
<p>18FF-4Z-C5</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 4 poles</p>	 <p>(Top View)</p>	 <p>(Top View)</p>		<p>plastic retainer 18FF-H4 metallic retainer 18FF-H5 marker 18FF-M1 plug-in module HFAA to HFHU*</p>

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

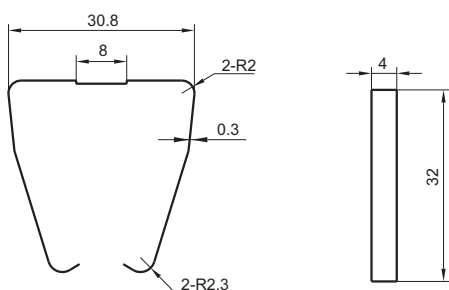
Unit: mm

Socket	Outline Dimensions	Wiring Diagram	PCB Layout	Components Available
<p>18FF-4Z-C8</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device Applicable for 4 poles</p>	 <p style="text-align: center;">(Top View)</p>	 <p style="text-align: center;">(Top View)</p>		<p>plastic retainer 18FF-H4</p> <p>marker 18FF-M3</p>
<p>18FF-4Z-C9</p>  <p>Spring-loaded terminal DIN rail mounting With finger protection device Applicable for 2 poles</p>	 <p style="text-align: center;">(Top View)</p>	 <p style="text-align: center;">(Top View)</p>		<p>plastic retainer 18FF-H4</p> <p>metallic retainer 18FF-H5</p> <p>plug-in module HFAA ~ HFHU*</p> <p>marker 18FF-M3</p>
<p>18FZ-2Z-C2</p>  <p>Screw Terminal, DIN rail or Screw mounting, With finger protection device</p>	 <p style="text-align: center;">(Top View)</p>	 <p style="text-align: center;">(Top View)</p>		<p>metallic retainer 18FF-H2 (Used in pairs)</p>

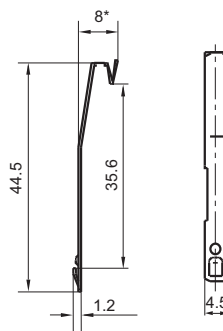
Notes: * Please refer to the product datasheet if plug-in module is required.

Retainer

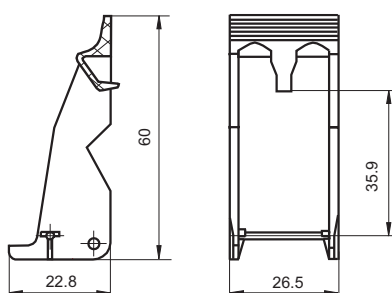
18FF-H1 (Metallic retainer)



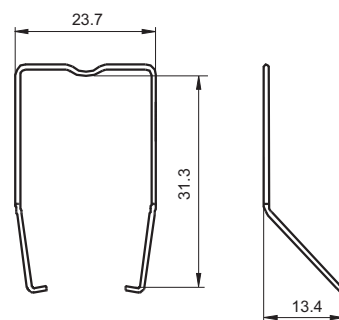
18FF-H2 (Metallic retainer)



18FF-H4 (Plastic retainer)

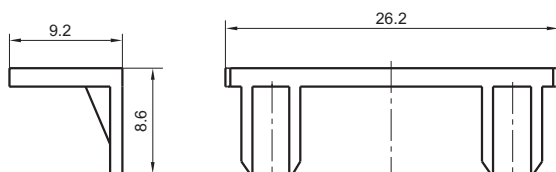


18FF-H5 (Metallic retainer)

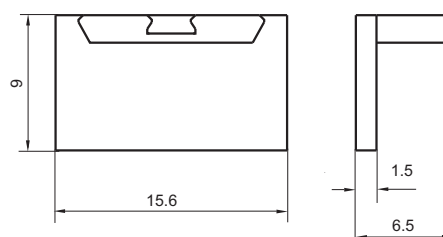


Marker

18FF-M1



18FF-M3



SELECTION OF PARTS

Type of Relay	Mounting termination	Socket	Retainer	Marker	Module
HF18FF/ _i 1 _j 1-2Z1 _i 1 _j 1 _i 1	without button	18FF-2Z-A2	18FF-H1	-	-
		18FF-2Z-C1	18FF-H2		
		18FF-2Z-C2			
		18FZ-2Z-C2			
		18FF-2Z-C4	18FF-H4/H5	18FF-M1	HFAA~HFHU
		18FF-2Z-C5			
		18FF-2Z-C8		18FF-M3	
		18FF-2Z-C9			
18FF-3Z-C4	18FF-M1				
18FF-3Z-C5					
HF18FF/ _i 1 _j 1-3Z1 _i 1 _j 1 _i 1	without button	18FF-4Z-A2	18FF-H1	-	-
18FF-4Z-C1		18FF-H2			
18FF-4Z-C2					
18FZ-4Z-C2					
18FF-4Z-C4		18FF-H4/H5	18FF-M1	HFAA~HFHU	
18FF-4Z-C5					
18FF-4Z-C8			18FF-M3		
18FF-4Z-C9					
18FF-4Z-C9					
HF18FH/ _i 1 _j 1-2Z1 _i 1 _j 1 _i 1	with button	18FF-2Z-C4	18FF-H4/H5	18FF-M1	HFAA~HFHU
		18FF-2Z-C5			
		18FF-2Z-C8		18FF-M3	
		18FF-2Z-C9			
18FF-3Z-C4		18FF-M1			
18FF-3Z-C5					
18FF-4Z-C4		18FF-M1			
18FF-4Z-C5		18FF-M3			
18FF-4Z-C8					
18FF-4Z-C9					
HF18FF-G/ _i 1 _j 1-2Z1 _i 1 _j 1 _i 1	without button	18FF-2Z-C5(734)	18FF-H4/H5	18FF-M1	
HF18FF-G/ _i 1 _j 1-3Z1 _i 1 _j 1 _i 1		18FF-3Z-C5(734)			
HF18FH-G/ _i 1 _j 1-2Z1 _i 1 _j 1 _i 1	with button	18FF-2Z-C5(734)			
HF18FH-G/ _i 1 _j 1-3Z1 _i 1 _j 1 _i 1		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, please contact us.
4. Main outline dimension(L, W, H) ≥50mm, tolerance should be ±1mm; outline dimension >20mm and <50mm, tolerance should be ±0.5mm; outline dimension ≤20mm, tolerance should be ±0.3mm.
5. DIN rail mounting: recommend to use standard rail 35×7.5×1mm, 35×15×1mm.

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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