FH48

Features

- 10A switching capability
- Low height, only 12.5 mm
- The creepage distance between the coil and the contact with a dielectric withstanding voltage of 4kV is more than 8mm
- Products conforming to IEC60335-1 standard are available
- Various contact types are available
- A variety of sockets are available
- UL insulation system:Class F
- Through-hole reflow specification products are available
- Outline Dimensions:(28.6×10.3×12.3)mm



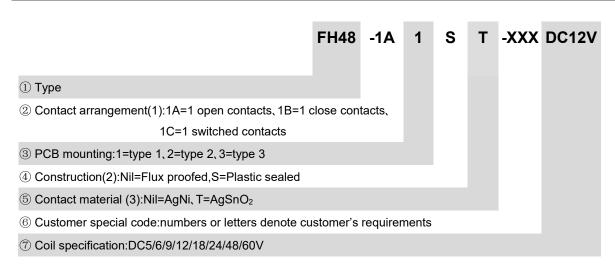
■ CHARACTERISTICS

Specifications	Item					
Contact Data	Contact arrangement		1A, 1B, 1C			
	Contact resistance(initial)		≤100mΩ(6VDC 1A)			
	Contact material		AgNi, AgSnO ₂			
Rated value	Rated load(Resistance load)		10A 250VAC/30VDC			
	Max.switching voltage		440VAC/125VDC			
	Max.switching current		10A			
	Max.switching capacity		2500VA/300W			
	Min.allowing load		5VDC 100mA			
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)			
	Dielectric	Between open contacts	1000VAC,1 min			
	strength (initial)	Between coil&contacts	5000VAC,1 min			
	Operate time		≤10ms			
	Release time		≤5ms			
Mechanical performance	Shock	Functional	98m/s ² (10G)			
	resistance	Destructive	980m/s²(100G)			
	Vibration resistance		10Hz~55Hz 1.5mm DA			
Endurance	Mechanical		1×10 ⁷ ops			
	Electrical(Room temperature)		10A 250VAC/30VDC	1×10 ⁵ ops(ON/OFF=1s/9s)		
Operate	Ambient temperature		-40°C~85/105°C			
condition	Humidity		5% to 90%			
Termination			PCB			
Unit weight			Approx.8g			
Construction			Plastic sealed, Flux proofed			

■ COIL DATA(23°C)

Nominal	Operate Voltage	Release Voltage	Rated Current	Coil Resistance (±	Nominal	May Voltage
Voltage	VDC	VDC	(±10%)	10%)	Power	Max Voltage
DC 5V	≤3.75	≥0.25	50mA	100Ω	- 250mW	DC 6.5V
DC 6V	≤4.50	≥0.30	41.7mA	144Ω		DC 7.8V
DC 9V	≤6.75	≥0.45	27.8mA	324Ω		DC 11.7V
DC 12V	≤9.00	≥0.60	20.8mA	576Ω		DC 15.6V
DC 18V	≤13.50	≥0.90	13.9mA	1296Ω		DC 19.5V
DC 24V	≤18.00	≥1.20	10.4mA	2304Ω		DC 23.4V
DC 48V	≤36.00	≥2.40	6.3mA	7680Ω	- 300mW	DC 62.4V
DC 60V	≤45.00	≥3.00	5.0mA	12000Ω		DC 78.0V

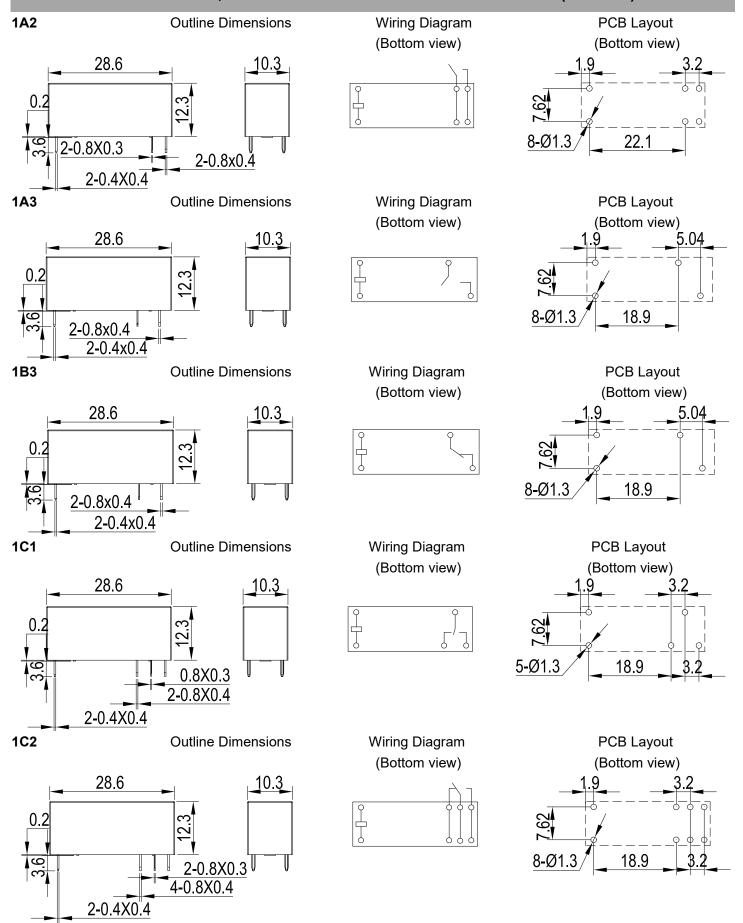
ORDERING INFORMATION



- (1) If need the contact arrangement is 1B,please contact with the salesman to ask for the outline dimensions,wiring diagram and PC board layout.
- (2) When used in clean environment(excluding H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Flux proofed type;When used in unclean environment(contain H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Plastic sealed.
- (3) Due to the high surge current of relay connection, we propose to use AgSnO2 contacts.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT (Unit:mm) 1A1 Outline Dimensions Wiring Diagram (Bottom view) (Bottom view) 1.9 28.6 0.2 0.8×0.3 2-0.4×0.4

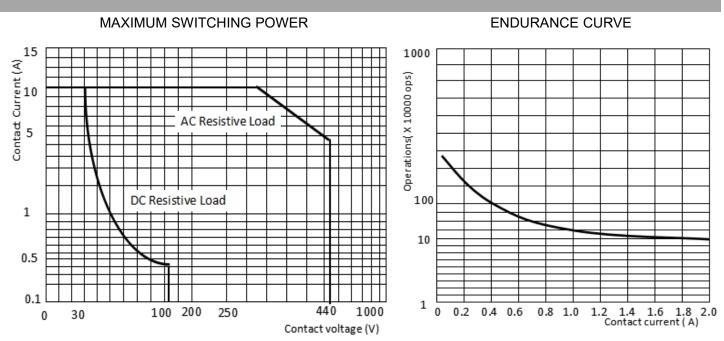
■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT (Unit:mm)



Remark: (1) In case of no tolerance shown in outline dimension:outline dimension≤1mm,tolerance should be±0.2mm;outline dimension>1mm and <5mm,tolerance should be ±0.3mm;outline dimension≥5mm,tolerance should be ±0.5mm.

(2) The tolerance without indicating for PCB layout is always ±0.1mm.

■ PERFORMANCE CURVES



■ NOTICE

- ① In order to maintain the initial performance parameters of the relay, please be careful not to drop the product;
- ② The specification is for reference only. Specifications subject to change without notice.