FH56L

Features

- 150A switching capability
- Optional contact gap >2.0mm
- Only pulse excitation voltage is required, energy saving and environmental protection
- Environment-friendly product(RoHS compliant)
- Outline Dimensions:(39.4×22×27.5)mm
- Main application: Electronic control systems for telecommunication,
- construction machinery, trams, automobiles, trains, ships, etc



CHARACTERISTICS

Specifications	Item					
	Contact arrangement			1A		
Contact Data	Contact resistance(initial)			≤1mΩ(6VDC 20A)		
	Contact material			AgSnO ₂		
	Rated load(Resistance load)			Main contact:		
				Making 50A,Carrying 125A,Breaking 50A,80VDC		
				Making 50A,Carrying 150A,Breaking 50A,60VDC		
				Making 50A,Carrying 125A,Breaking 50A,305VAC		
				Making 50A,Carrying 150A,Breaking 50A,277VAC		
Rated value				Auxiliary contact:		
				1A 6VDC		
	Max.switching voltage			Main contact:305VAC/80VDC Auxiliary contact:6VDC		
	Max.switching current			Main contact:50A Auxiliary contact:1A		
	Max.switching capacity			Main contact:15250VA/4000W Auxiliary contact:6W		
	Min.allowing load			5VDC 100mA		
	Insulation res	sistand	e(initial)	1000MΩ(500VDC)		
	Dielectric	Between open Main contacts		2000VAC,1min		
Electrical performance	strength (initial)	Between coil&Main contacts		4000VAC,1min		
	Set time			≤20ms		
	Reset time			≤20ms		
	Shock resistance		Functional	98m/s²(10G)		
Mechanical			Destructive	980m/s²(100G)		
performance	Vibration resistance			1×10 ⁵ ops10Hz~55Hz 1.5mm DA		
	Mechanical			1×10 ⁵ ops		
				Main contact:		
				6×10³ 次(ON/OFF=1s/9s,Resistive)		
Endurance	EL (: 1/D			Making 50A,Carrying 125A,Breaking 50A,80VDC		
	Electrical(Room temperature)			Making 50A,Carrying 150A,Breaking 50A,60VDC		
				Making 50A,Carrying 125A,Breaking 50A,305VAC		
				Making 50A,Carrying 150A,Breaking 50A,277VAC		
	Zheijang Fanhar Flectronics Co. Ltd.			2024		

Operate	Ambient temperature	-40℃~85℃		
condition	Humidity	5% to 85%		
Termination		PCB		
Unit weight		Approx.60g		
Construction		Plastic sealed, Flux proofed		

COIL DATA(23℃)

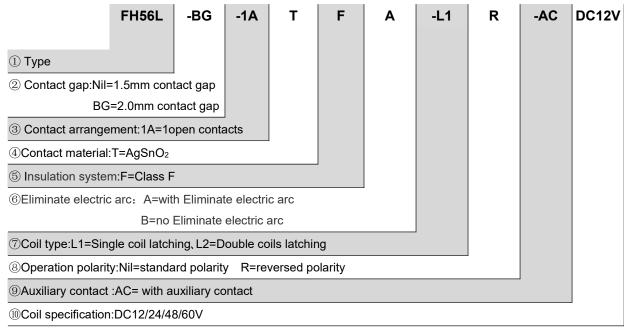
■Single coil latching

Nominal	Set Voltage	Reset Voltage	Rated Current	Coil Resistance	Nominal	Pulse Duration
Voltage	VDC	VDC	(±10%)	(±10%)	Power	Puise Duration
DC 12V	≤9.0	≤9.0	641.7mA	18.7Ω	7.7W	200ms
DC 24V	≤18.0	≤18.0	320.8mA	74.8Ω		200ms
DC 48V	≤36.0	≤36.0	160.4mA	299.2Ω		200ms
DC 60V	≤45	≤45.0	128.3mA	701.3Ω		200ms

■Double coils latching

Nominal Voltage	Set Voltage VDC	Reset Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Pulse Duration
DC 12V	≤8.4	≤8.4	1283/1283mA	9.4/9.4Ω	15.4W	200ms
DC 24V	≤16.8	≤16.8	641.6/641.6mA	37.4/37.4Ω		200ms
DC 48V	≤33.6	≤33.6	320.8/320.8mA	149.6/149.6Ω		200ms
DC 60V	≤42	≤42	256.7/256.7mA	233.7/233.7Ω		200ms

ORDERING INFORMATION

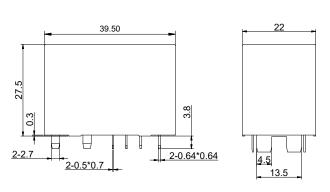


- (1) When used in clean environment(excluding H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Flux proofed type; When used in unclean environment (contain H2S, SO2, NO2, dust and other pollutants), it is recommended to choose the Plastic sealed.
- The auxiliary contacts and main contacts have the same form; (2)

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

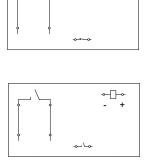
1A Single coil latching

Outline Dimensions

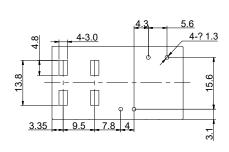


Wiring Diagram (Bottom view)

←□⊷

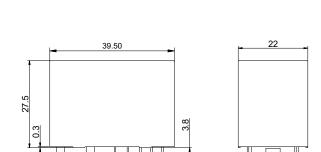


PCB Layout (Bottom view)

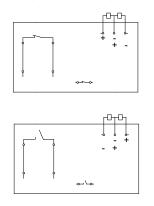


1A Double coil latching

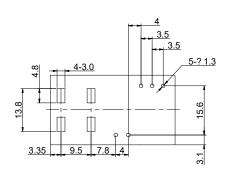
Outline Dimensions



Wiring Diagram (Bottom view)



PCB Layout (Bottom view)



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 ± 0.1 mm.

3-0.64*0.64

NOTICE

- ① For the state of latching relay as delivered, If the customer has no special requirements, we default to the closed state before delivery, but due to transportation or relay installation by shock and other factors may change the state, so please reset it to the closed or open state as needed when using;
- 2 In order to maintain the initial performance parameters of the relay, please be careful not to drop the product;
- In order to maintain "opening" or "closing" status, energized voltage applied across the coil should reach the rated voltage, it is recommended that the actual driving voltage be 1~1.1 times the rated voltage, Pulse width 200 ± 50ms,, and do not energize to "opening" coil and "closing" coil simultaneously, long energized time(>1 min) should also be avoided;
- Avoid magnetic fields greater than 200mt around the product, strong magnetic fields will affect the normal operation of the product;
- (5) The specification is for reference only. Specifications subject to change without notice.