Features

- 90A contact switching capability
- Withstand capacity 2000A 0.3ms 300 times can be off
- Surge current resistance up to 500A/2ms
- Contact gap is 1.5mm
- Contact on and off can be controlled by manual control switch
- UL insulation system:Class F
- Outline Dimensions:(39.0×15×30.2)mm
- Main application:charging pile,Smart home,Lighting control



■ CHARACTERISTICS

Specifications	Item					
	Contact arrangement		1A, 1B			
Contact Data	Contact resistance(initial)		≤1mΩ(6VDC 1A)			
	Contact mat	terial	AgSnO ₂			
	Rated load(Resistance load)		90A 277VAC			
Data danahar	Max.switchi	ng voltage	440VAC			
Rated value	Max.switchi	ng current	90A			
	Max.switchi	ng capacity	22500VA			
	Insulation resistance(initial)		1000MΩ(500VDC)			
	Dielectric	Between open contacts	2000VAC 1min			
Electrical performance	strength (initial)	Between coil&contacts	4000VAC 1min			
	Closing time		≤15ms			
	Opening time		≤15ms			
Mechanical	Shock	Functional	98m/s ² (10g)			
performance	resistance	Destructive	980m/s ² (100g)			
periormance	Vibration resistance		10Hz~55Hz 1.5mm DA			
Endurance	Mechanical		1×10 ⁶ ops			
Endurance	Electrical	ON/OFF=1S/9S	90A 277VAC	1×10 ⁴ ops(COSφ=1)		
Operate	Ambient temperature		-40℃~85℃			
condition	Humidity		5%~85%RH			
Termination			PCB type			
Unit weight			Approx.35g			
Construction			Plastic sealed,Flux proofed			

■ COIL DATA(23°C)

■Standard Single Coil

Nominal	Closing Voltage	Opening Voltage	Rated Current	Coil Resistance	Nominal	May Valtage
Voltage	VDC	VDC	(±10%)	(±10%)	Power	Max Voltage
DC 6V	≤4.50	≤4.50	0.5A	12Ω	- 3.0 W	DC 9V
DC 9V	≤6.75	≤6.75	0.33A	27Ω		DC 13.5V
DC 12V	≤9.00	≤9.00	0.25A	48Ω		DC 18V
DC 24V	≤18.00	≤18.00	0.13A	192Ω		DC 36V

■Standard double coils

Nominal	Closing Voltage	Opening Voltage	Rated Current	Coil Resistance	Nominal	Max Voltago
Voltage	VDC	VDC	(±10%)	(±10%)	Power	Max Voltage
DC 6V	≤4.50	≤4.50	1.0/1.0A	6/6Ω	- 6.0W	DC 9V
DC 9V	≤6.75	≤6.75	0.67/0.67A	13.5/13.5Ω		DC 13.5V
DC 12V	≤9.00	≤9.00	0.5/0.5A	24/24Ω		DC 18V
DC 24V	≤18.00	≤18.00	0.25/0.25A	96/96Ω		DC 36V

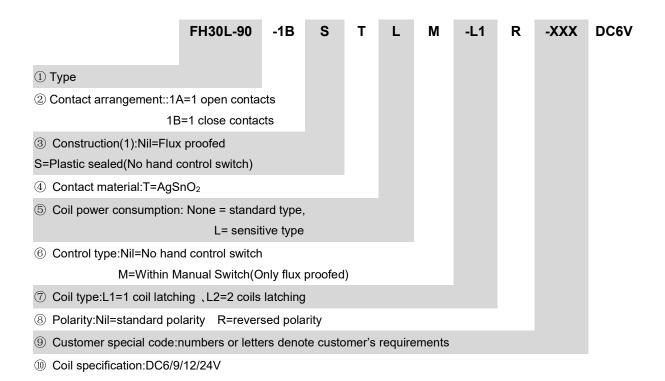
■Sensitive single coil

Nominal	Closing Voltage	Opening Voltage	Rated Current	Coil Resistance	Nominal	May Valtage
Voltage	VDC	VDC	(±10%)	(±10%)	Power	Max Voltage
DC 6V	≤4.50	≤4.50	0.25A	24Ω	- 1.5W	DC 9V
DC 9V	≤6.75	≤6.75	0.17A	54Ω		DC 13.5V
DC 12V	≤9.00	≤9.00	0.125A	96Ω		DC 18V
DC 24V	≤18.00	≤18.00	0.06A	384Ω		DC 36V

■Sensitive double coils

Nominal	Closing Voltage	Opening Voltage	Rated Current	Coil Resistance	Nominal	May Valtage
Voltage	VDC	VDC	(±10%)	(±10%)	Power	Max Voltage
DC 6V	≤4.50	≤4.50	0.5/0.5A	12/12Ω	- 3.0W	DC 9V
DC 9V	≤6.75	≤6.75	0.33/0.33A	27/27Ω		DC 13.5V
DC 12V	≤9.00	≤9.00	0.25/0.25A	48/48Ω		DC 18V
DC 24V	≤18.00	≤18.00	0.125/0.125A	192/192Ω		DC 36V

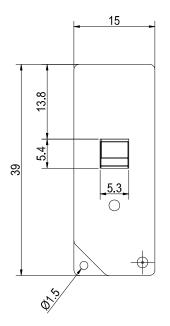
ORDERING INFORMATION

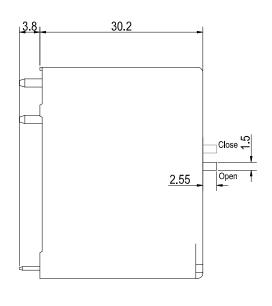


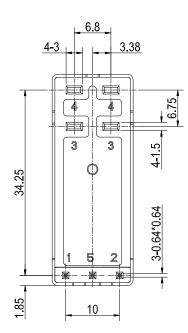
(1) When used in clean environment(excluding H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Flux proofed type;When used in unclean environment(contain H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Plastic sealed.

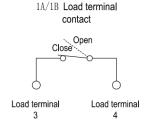
■ WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

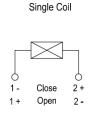
Outline Dimensions, Standard polarity wiring diagram

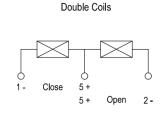












Remark:(1)In case of no tolerance shown in outline dimension:outline dimension≤1mm,tolerance should be±0.2mm;outline dimension>1mm and <5mm,tolerance should be ±0.3mm;outline dimension≥5mm,tolerance should be ±0.5mm.

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

■ 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 or be affected by external force;
- ③ 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 1~1.5 times the rated voltage, Pulse width ≥50ms,and do not energize to "opening" coil and "closing" coil simultaneously,long energized time(more than 1 min) should also be avoided;
- ④ The soldering temperature of load extraction terminal with copper is 260°C±5°C, soldering time is 10S±1S
- (5) Latching relays are customized products, the above cases are only for reference. If you have any questions, please contact Fanhar for more technical support;
- (6) The specification is for reference only. Specifications subject to change without notice.