

Features

- 8A switching capability
- Contact arrangement: 3A1B, 2A2B
- Forced guided contact structure: Compliant with IEC 61810-3
- UL insulation system: Class F
- Strong insulation ability: Surge voltage (Between coil&contacts) :10KV
(Waveform 1.2/50 μ s)
- Environmental friendly product(RoHS compliant)
- Dimensions: (39.7X13X16.1)mm



CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		3A1B、 2A2B
	Structural classification （According IEC61810-3）		Class A forced guided
	Contact resistance(initial)		≤100mΩ(6VDC 1A)
	Contact material		AgSnO ₂
Rated value	Rated load(Resistance load)		8A 250VAC/30VDC
	Max.switching voltage		400VAC(3.5A resistive load)
	Max.switching current		8A
	Max.switching capacity		2000VA/240W
	Min.allowing load		5VDC 10mA
Switching capacity	DC-13		1NO:3A 24VDC(ON/OFF=1s/9s)
	AC-15		1NO:3A 250VAC(ON/OFF=1s/9s)
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	1500VAC
		Between coil&contacts	4000VAC,1min
		Between contact groups	2500VAC,1min
	Operate time		≤20ms
	Release time		≤10ms
Mechanical performance	Shock resistance	Stability	NO:98m/s ² (10g)
		Strength	NO:980m/s ² (100g)
	Vibration resistance		NO:10Hz～200Hz ， 98m/s ² (10g)
Endurance	Mechanical (No load)		1×10 ⁷ ops
	Electrical (85℃)		8A 250VAC/30VDC 1×10 ⁴ ops(ON/OFF=1s/9s)
Operate condition	Ambient temperature		-40℃～85℃
	Humidity		5% to 85%RH
Termination			Printed circuit version
Unit weight			Approx. 15g
Construction			Flux proofed, Plastic sealed

COIL DATA (23°C)

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)	Coil Resistance(±10%)	Nominal Power	Max. Voltage
DC 5V	≤3.75	≥0.25	160mA	31.2Ω	800mW	DC 7.5V
DC 6V	≤4.50	≥0.30	133.3mA	45Ω		DC 9V
DC 9V	≤6.75	≥0.45	88.9mA	101Ω		DC 13.5V
DC 12V	≤9.00	≥0.60	66.6mA	180Ω		DC 18V
DC 15V	≤13.50	≥0.90	53.3mA	281Ω		DC 22.5V
DC 21V	≤15.75	≥1.05	38.1mA	551Ω		DC 31.5V
DC 24V	≤18.00	≥1.20	33.3mA	720Ω		DC 36V
DC 36V	≤27.00	≥1.80	22.2mA	1620Ω		DC 54V
DC 48V	≤36.00	≥2.40	16.6mA	2880Ω		DC 72V
DC 110V	≤82.75	≥5.50	7.27mA	15125Ω		DC 165V

ORDERING INFORMATION

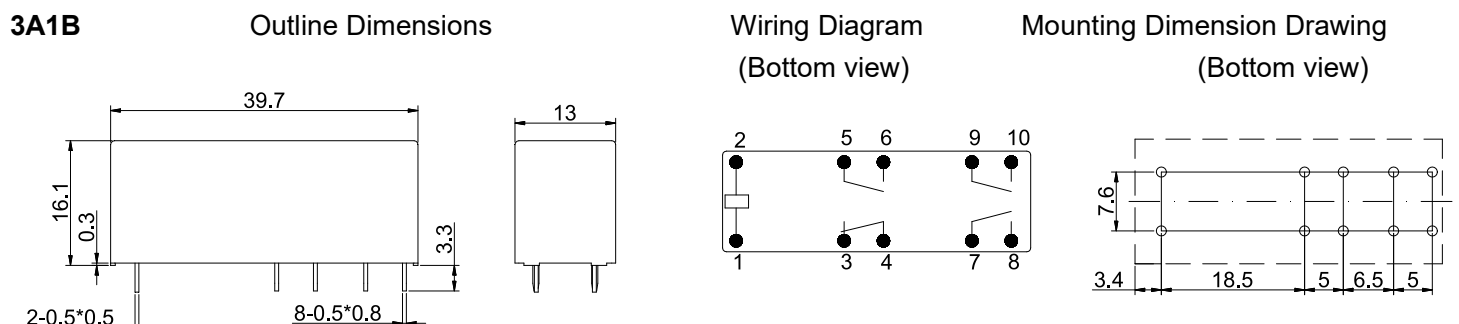
FH55FS -3A1B S T F -XXX DC12V

- ① Type: FH55FS=4sets of relay
- ② Contact arrangement:
3A1B=3open contacts+1 close contacts
2A2B=2 open contacts+2 close contacts
- ③ Construction⁽¹⁾: Nil=Flux proofed、S=Plastic sealed
- ④ Contact material: T=AgSnO₂
- ⑤ Insulation system: Nil=Class A, F=Class F
- ⑥ Customer special code ⁽²⁾ : numbers or letters denote customer's requirements;
- ⑦ Coil specification: DC5/6/9/12/15/21/24/36/48/110V

(1) For applications in clean environments (free of contaminants such as H₂S, SO₂, NO₂ and dust), flux proofed type is recommended. For polluted environments containing contaminants such as H₂S, SO₂, NO₂ and dust, molded type is suggested. Please contact our company if overall cleaning or surface treatment is required.

(2) Special customer requirements shall be reviewed by our company and marked with a characteristic number.

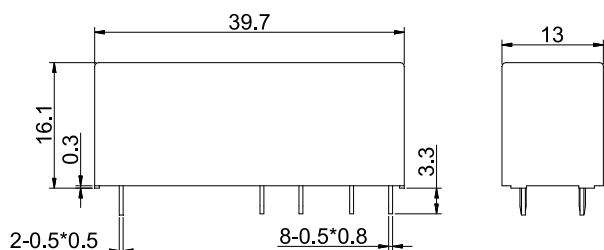
OUTLINE DIMENSIONS, WIRING DIAGRAM AND Mounting Dimension Drawing (Unit:mm)



■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND Mounting Dimension Drawing (Unit:mm)

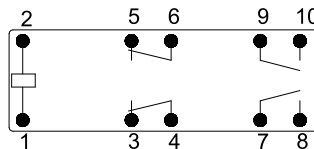
2A2B Drawing

Outline Dimensions



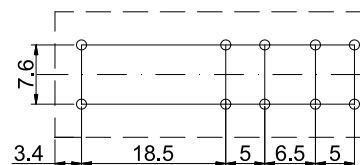
Wiring Diagram

(Bottom view)



Mounting Dimension

(Bottom view)

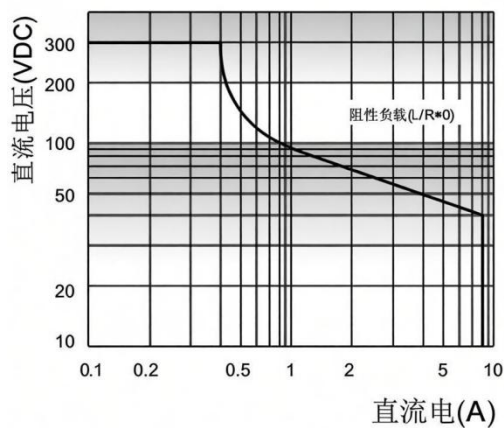


Note: (1) Dimensions marked on the product outline drawing for pins are values before tin dipping (dimensions will increase slightly after tin dipping). Unspecified dimensional tolerances: For outline dimensions ≤ 1 mm: tolerance ± 0.2 mm; For outline dimensions from 1 mm to 5 mm: tolerance ± 0.3 mm; For outline dimensions ≥ 5 mm: tolerance ± 0.5 mm.

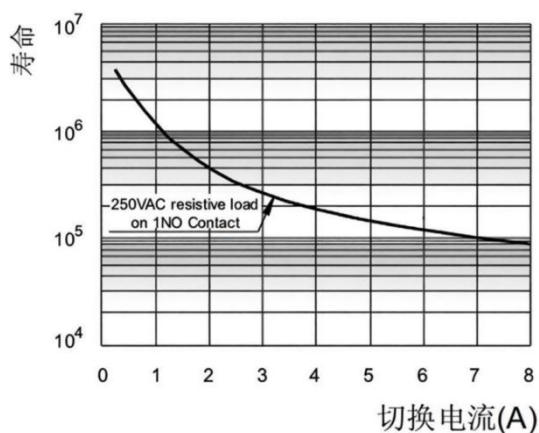
(2) Unspecified tolerance for PCB cutout mounting dimensions is ± 0.1 mm.

■ 性能曲线图

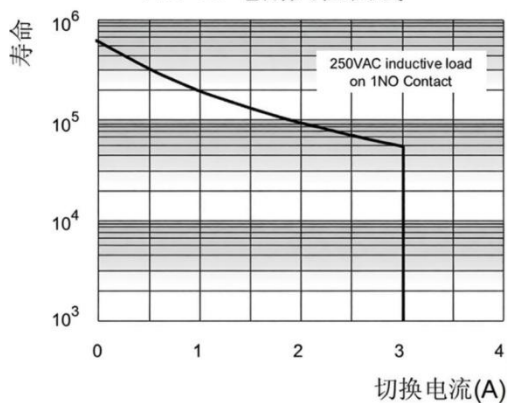
最大直流电承载能力



电耐久性曲线

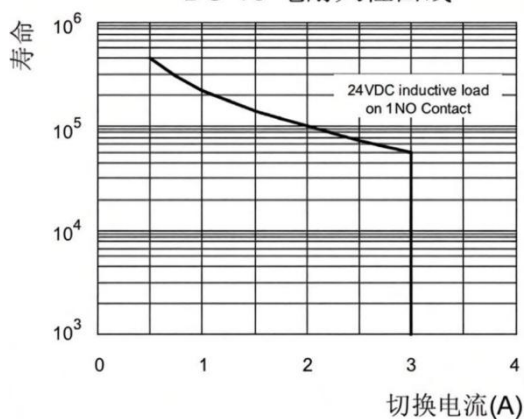


AC-15 电耐久性曲线



AC-15 life tested in accordance with IEC 60947-5-1; Test conditions: 250 VAC, 85 °C, 1 s ON / 9 s OFF

DC-13 电耐久性曲线



DC-13 life tested per IEC 60947-5-1 Test conditions:

■ 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.