Features

- Contact gap is 4.0mm
- 160A contact switching capability
- Outline Dimensions:(45X40X43)mm
- UL insulation system:Class F
- Main application: PV inverter,Inverter precharge circuit control,

Industrial control device









■ CHARACTERISTICS

Specifications	Item		160A	100A				
Contact arrangement		angement	1A					
Contact Data	Contact resistance(initial)		≤2mΩ(6VDC 20A)					
	Contact material		AgSnO ₂					
	Rated load(Resistance load)		Connecting 50A,carrying 160A,	Connecting 30A,carrying				
			breaking 50A 830VAC 85℃	100A,breaking 30A 800VAC 85℃				
Rated value	Max.switching voltage		830VAC	800VAC				
	Max.switching current		160A	100A				
	Max.switching capacity		41500VA	24000VA				
	Insulation resistance(initial)		1000MΩ(at500VDC)					
Electrical	Dielectric strength	Disconnect between main contacts	2500VAC 1min(50Hz/60Hz)					
performance	(initial)	Between coil&contacts	5000VAC 1min(50Hz/60Hz)					
	Operate time		≤30ms					
	Release time		≤10ms					
	Shock	Functional	98m/s²(10g)					
Mechanical performance	resistance	Destructive	980m/s²(100g)					
periormance	Vibration resistance		10Hz~55Hz 1.5mm DA					
	Mechanical		1×10 ⁶ ops					
Endurance	Electrical	ON/OFF=1S/9S	Connecting 50A carrying 160A breaking 50A 830VAC Resistive 85℃ 3×10⁴ ops	Connecting 30A carrying 100A breaking 30A Resistive 85°C 3×10 ⁴ ops				
Surge voltage (Between coil&contacts)			10KV(1.2/50 μ s)					
Operate	Operate Ambient temperature		-40℃~+85℃					
condition	Humidity		5%~85%RH					
Unit weight			Approx.133g					
Construction			Flux proofed					

Note: The above datas are the initial values

■ COIL DATA(23°C)

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)A	Coil Resistance (±10%)Ω	Nominal Power	Sustaining voltage	Max Voltage VDC
DC 6V	≤4.5	≥0.3	0.533	11.3		400/ 1000/IIn	6.6
DC 9V	≤6.75	≥0.45	0.356	25.3		40%-100%Un (Ambient temperature25℃) 50%-60%Un (Ambient temperature85℃)	9.9
DC 12V	≤9	≥0.6	0.267	45	3.2W		13.2
DC 24V	≤18	≥1.2	0.133	180			26.4
DC 48V	≤36	≥2.4	0.067	720		(Ambient temperatureos C)	52.8

Remark:(1)The coil sustaining voltage applied to coil 100ms after the rated voltage.

(2)To avoid overheating and buring, the coil can not be consistently applied to with voltage larger than maximum sustaining voltage.

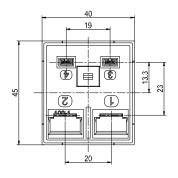
■ ORDERING INFORMATION

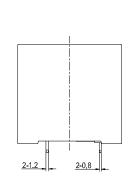
	FH66NE	100	-1A	1	Т	F	-XXX	-DC12V
① Туре								
② Rated Current:100=100A 160=160A								
③ Contact arrangement:1A=1 open contacts								
④ Terminal: 1=Standard type								
⑤ Contact material:T=AgSnO ₂								
⑥ Insulation standard:Nil=Blank F=Class F								
⑦ Customer special code:numbers or letters denote customer's requirements								

® Coil specification:DC6/9/12/24/48V

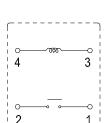
■ WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

100-1A1 Outline Dimensions

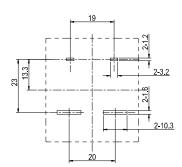




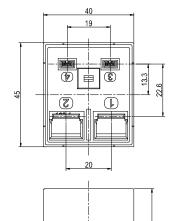
Wiring Diagram (Bottom view)



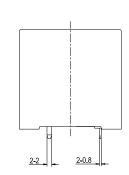
PCB Layout (Bottom view)



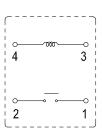
160-1A1 Outline Dimensions



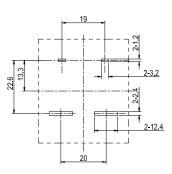
2-12



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.

SAFETY APPROVAL RATINGS

160-1A1

Approval	File No.	Approved ratings				
UL/C-UL E475405	E475405	Connecting 50A/40A carrying 160A/150A breaking 50A/40A 830/277VAC Resistive 85°C3×10⁴ ops				
	150A 30VDC Resistive 40 °C 3×10⁴ ops					
TUV F	R 50601543	Connecting 50A/40A carrying 160A/150A breaking 50A/40A 830/277VAC Resistive 85°C 3×10 ⁴ ops				
		150A 30VDC Resistive 40℃ 3×10⁴ ops				
CQC	CQC230024	Connecting 50A/40A carrying 160A/150A breaking 50A/40A 830/277VAC Resistive 85℃ 3×10⁴ ops				
CQC	05299	150A 30VDC Resistive 40 ℃ 3×10⁴ ops				

■ NOTICE

- ① In order to maintain the initial performance parameters of the relay, please be careful not to drop the product or be affected by
- ② The soldering temperature of load extraction terminal with copper is 260 °C ±5 °C, soldering time is 3~5S;
- ③ The specification is for reference only. Specifications subject to change without notice.