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 Data	Contact arrangement		1A				
	Contact resistance(initial)		≤2mΩ(6VDC 20A)				
	Contact material		AgSnO ₂				
	5 (11)	.	Connecting 50A,carrying 160A,	Connecting 30A,carrying			
Rated value	Rated load(Resistance load)	breaking 50A 830VAC 85℃	100A,breaking 30A 800VAC 85℃			
	Max.switchi	ng voltage	830VAC	800VAC			
	Max.switchi	ng current	160A	100A			
	Max.switchi	ng capacity	132800VA	80000VA			
Electrical performance	Insulation resistance(initial)		1000MΩ(at500VDC)				
	Dielectric strength	Disconnect between main contacts	2500VAC 1min(50Hz/60Hz)				
	(initial)	Between coil&contacts	5000VAC 1min(50Hz/60Hz)				
	Operate tim	ie	≤30ms				
	Release tim	ie	≤10ms				
	Shock resistance	Functional	98m/s ² (10g)				
Mechanical		Destructive	980m/s²(100g)				
performance	Vibration resistance		10Hz~55Hz 1.5mm DA				
Endurance	Mechanical		1×10 ⁶ ops				
	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℃ 3×10⁴ ops			
Surge voltage (Between coil&contacts)			10KV(1.2/50 μs)				
Operate	Ambient temp	erature	-40℃~+85℃				
condition	Humidity		5%~85%RH				
Unit weight			Approx.133g				
Construction			Flux proofed				

Note: The above datas are the initial values

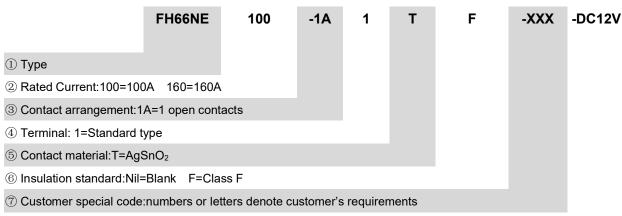
■ COIL DATA(23°C)

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		40%-100%Un (Ambient temperature25℃) 50%-60%Un (Ambient temperature85℃)	6.6
DC 9V	≤6.75	≥0.45	0.356	25.3			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			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.

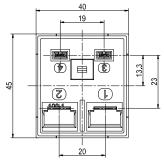
■ ORDERING INFORMATION

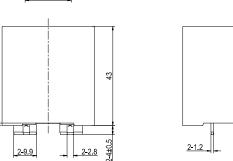


® Coil specification:DC6/9/12/24/48V

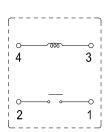
■ WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

100-1A1 Outline Dimensions

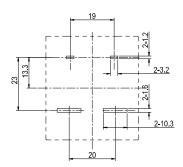




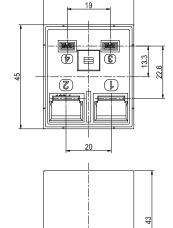
Wiring Diagram (Bottom view)



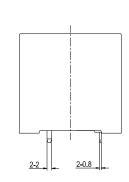
PCB Layout (Bottom view)



160-1A1 Outline Dimensions

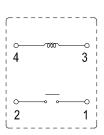


2-12

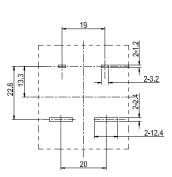


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Wiring Diagram (Bottom view)



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≥5mm,tolerance should be ±0.5mm.

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

SAFETY APPROVAL RATINGS

160-1A1

Approval	File No.	Approved ratings
UL/C-UL	E475405	Connecting 50A/40A carrying 160A/150A breaking 50A/40A 830/277VAC Resistive 85°C3×10⁴ ops
		150A 30VDC Resistive 40℃ 3×10⁴ ops
TUV	R 50601543	Connecting 50A/40A carrying 160A/150A breaking 50A/40A 830/277VAC Resistive 85℃ 3×10⁴ 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
	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 external force:
- ② The soldering temperature of load extraction terminal with copper is 260 $^{\circ}$ C±5 $^{\circ}$ C, soldering time is 3~5S;
- ③ The specification is for reference only. Specifications subject to change without notice.