

FEATURES

- Applicable to solar photovoltaic inverter
- Low coil holding voltage contributes to saving energy of equipment
- Insulation system: Class F

CONTACT DATA

Contact arrangement	1A
Contact resistance(initial)	1 m Ω (20A 6VDC)
Termination	PCB
Construction	Flux proofed

CHARACTERISTICS

Insulation resistance	1000M Ω at 500VDC
Dielectric strength	5000VAC, 1 min. between coil to contacts 2000VAC, 1 min. between open contacts
Surge voltage	10kV(1.2/50 μ s) between coil to contacts
Operate time	Max. 30 ms (at rated voltage)
Release time	Max. 10 ms (at rated voltage)
Vibration resistance	10-55Hz, 1.0mm DA
Shock resistance	Functional:98m/s ² Destructive:980m/s ²
Humidity	5% to 85% RH
Ambient temperature	-40℃ ~ 85℃(Apply holding voltage to coil)

CONTACT DATA

Max.Switching current	165A	200A	270A
Contact rating (Res.load)	Making:55A Carrying 165A breaking 55A 800VAC	Making:55A Carrying 200A breaking 55A 800VAC	Making:50A Carrying 270A breaking 50A 1000VAC
Max. switching voltage	800VAC	830VAC	1000VAC
Max.Switching power	44000VA	45650VA	270000VA
Contact gap	3.6mm	4.0mm	4.0mm
Temperature rise	70K max.(contact load current 165A,50% to 60% rated voltage excitation, at 85°C)	70K max.(contact load current 200A,50% to 60% rated voltage excitation, at 85°C)	70K max.(contact load current 270A, Rated voltage is reduced to holding voltage after 100ms of excitation, at 85°C)
Contact material	AgNi	AgNi	AgNi,AgSnO ₂
Mechanical endurance	1 x 10 ⁶ ops	1 x 10 ⁶ ops	3 x 10 ⁵ ops
Electrical endurance	6x10 ³ ops(Making55A, Carrying165A,breaking55A, 800VAC,Res.load,at 85°C,1s on 9s off)	3x10 ⁴ ops(Making55A, carrying200A,breaking55A, 800VAC,Res.load,at 85°C,1s on 9s off)	AgNi: 1 x 10 ⁴ ops AgSnO ₂ : 3 x 10 ⁴ ops (Making50A,carrying270A, breaking50A,1000VAC,Res.load, at 85°C,1s on 9s off)
Dimension	50 x 41 x 53mm (L x W x H)	65 x 45.9 x 53mm (L x W x H)	Standard:65 x 45.9 x 53mm (L x W x H) With heat sink:65 x 54 x 53mm (L x W x H)

COIL SPECIFICATIONS -(165A Switching capability)

Nominal voltage (VDC)	Pick-up voltage VDC(Max.)	Drop-out voltage VDC(Min.)	Nominal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption(W)	Max. allowable voltage(VDC)
6	4.2	0.6	417	14.4	2.5	120% of nominal voltage
9	6.3	0.9	278	32.4	2.5	
12	8.4	1.2	208	57.6	2.5	
24	16.8	2.4	104	230.4	2.5	

COIL SPECIFICATIONS -(200A Switching capability)

Nominal voltage (VDC)	Pick-up voltage VDC(Max.)	Drop-out voltage VDC(Min.)	Nominal current (mA±10%)	Coil resistance ($\Omega \pm 10\%$)	Power consumption(W)	Max. allowable voltage(VDC)
6	4.2	0.6	500	12	3.0	120% of nominal voltage
9	6.3	0.9	333	27	3.0	
12	8.4	1.2	250	48	3.0	
24	16.8	2.4	125	192	3.0	

COIL SPECIFICATIONS -(270A Switching capability)

Nominal voltage (VDC)	Pick-up voltage VDC(Max.)	Drop-out voltage VDC(Min.)	Nominal current (mA±10%)	Coil resistance ($\Omega \pm 10\%$)	Power consumption(W)	Max. allowable voltage(VDC)
6	4.5	0.3	833	7.2	5.0	120% of nominal voltage
9	6.75	0.45	556	16.2	5.0	
12	9	0.6	417	28.8	5.0	
24	18	1.2	208	115.2	5.0	

ORDERING INFORMATION

ME-67 - 012 - H T F L (200)

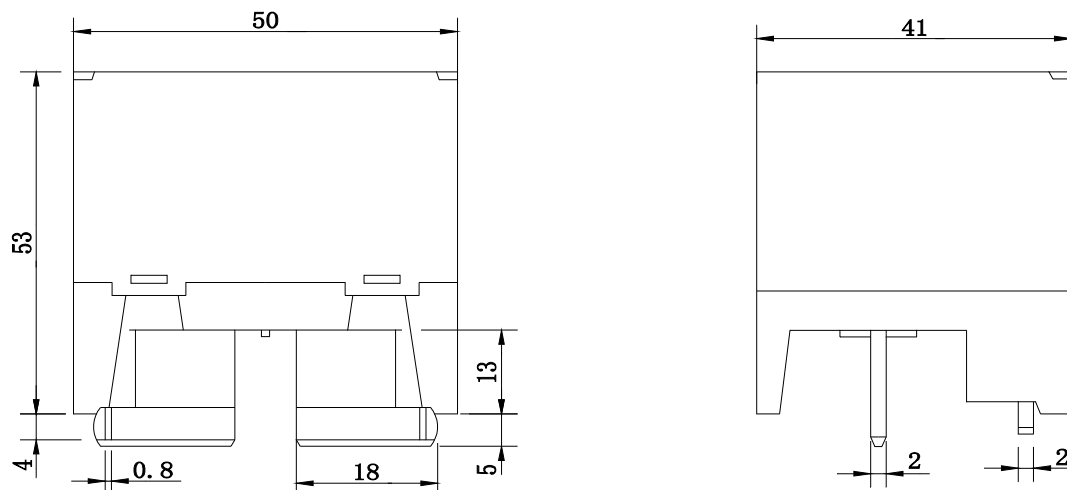
Model No.	Coil Voltage	Contact Form	Contact Material	Insulation System	Special Requirement	Current Capability
ME-67	6VDC-24VDC	H: 1A	Nil: AgNi T: AgSnO ₂	F: Class F	Nil: Standard L: With heat sink	(165):165A (200):200A (270):270A

Notes:The Contact Material is AgSnO₂ or With heat sink is only for 270A switching capability

Dimensions(unit:mm)

Tolerance: ±0.4mm

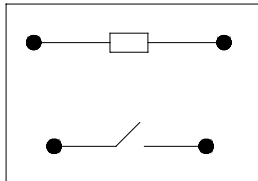
165A Switching Capability



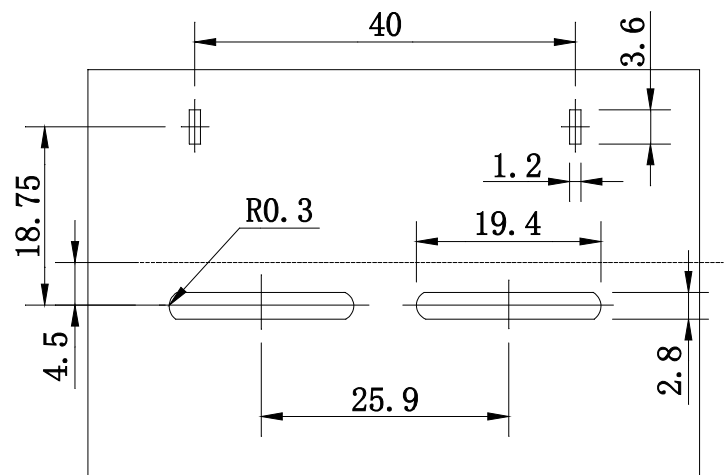
Dimensions(unit:mm)

Tolerance: $\pm 0.4\text{mm}$

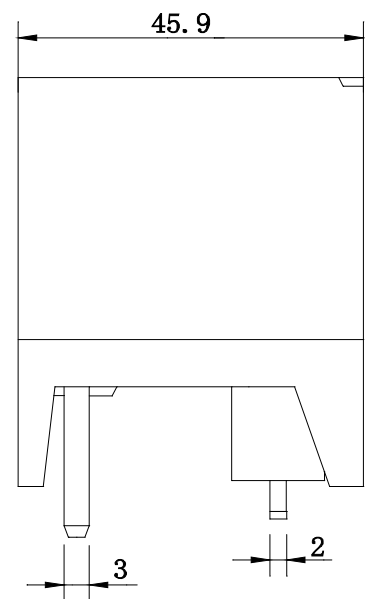
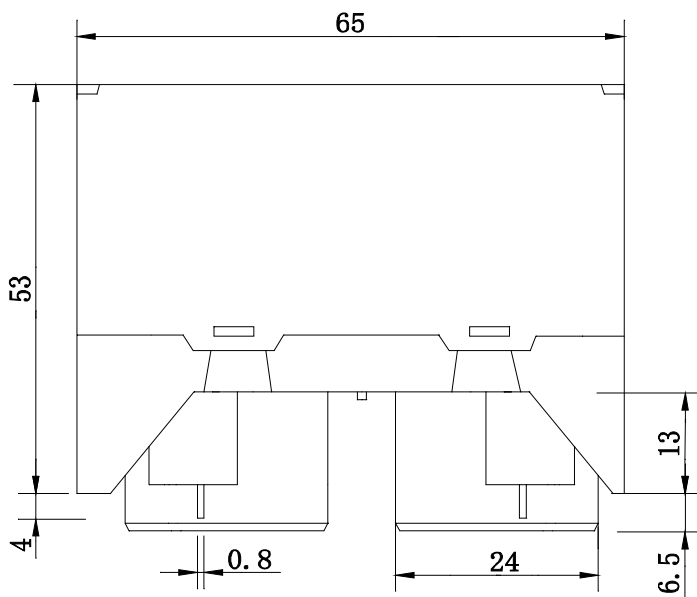
SCHEMATIC



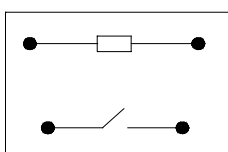
PCB LAYOUT



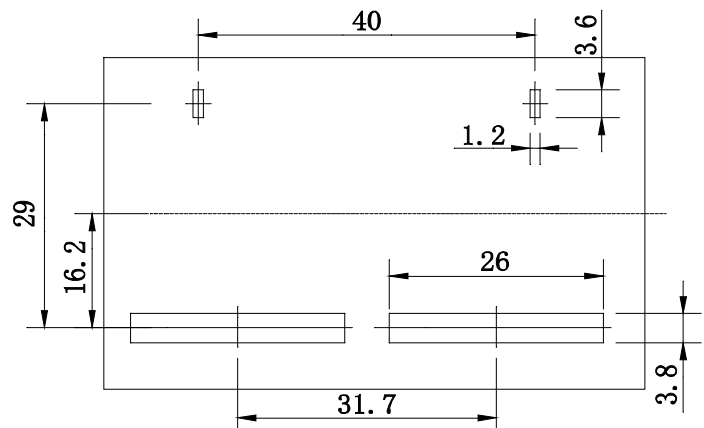
200A Switching Capability



SCHEMATIC



PCB LAYOUT

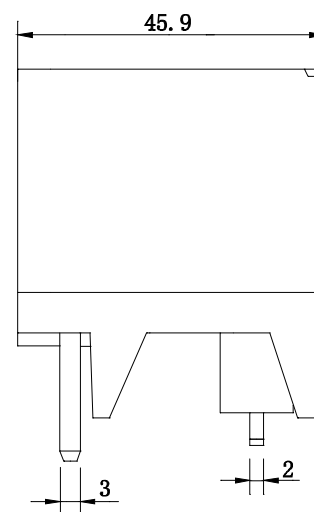
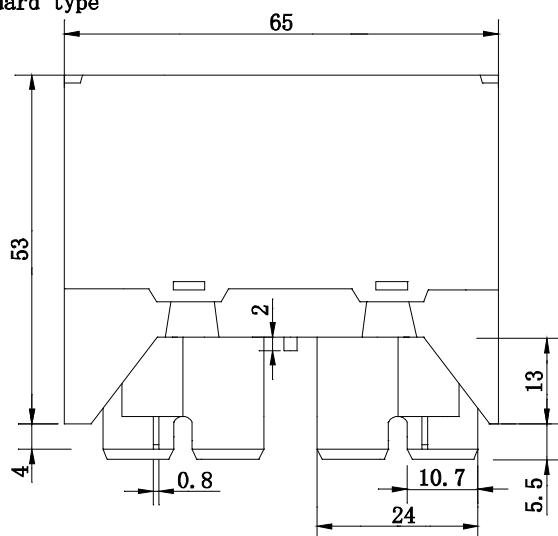


Dimensions(unit:mm)

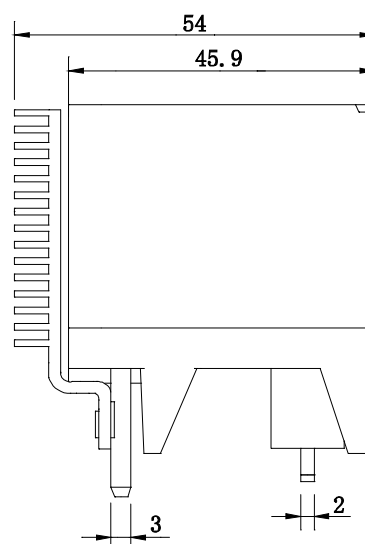
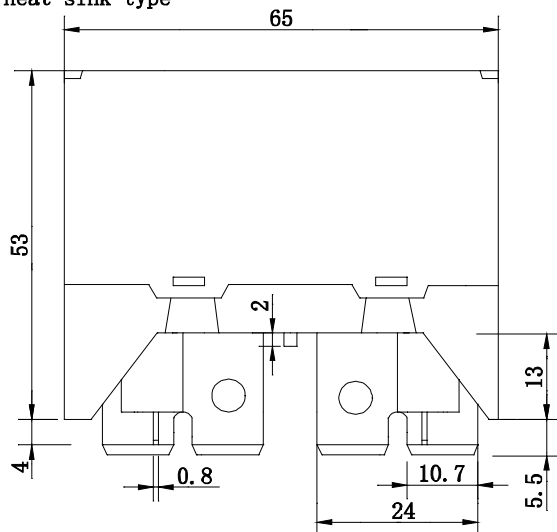
Tolerance: $\pm 0.4\text{mm}$

270A Switching Capability

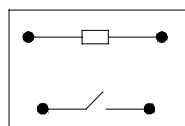
Standard type



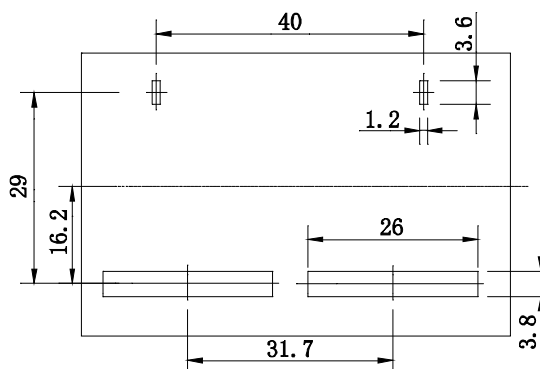
With heat sink type



SCHEMATIC



PCB LAYOUT

**Disclaimer: All the specifications are subject to change without notice.**