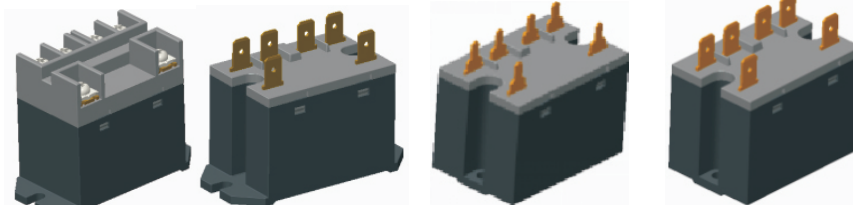


Features:

- 2 Normally Open (NO) contacts
- Contact-to-Coil Isolation Voltage: 4 kV
- 200A contact switching capability.
- Safety design with 3.0 mm contact gap
- Environmentally Friendly Product (RoHS Compliant)



Approvals

UL/C-UL File No.: E190598
VDE File No.: 40050829
CCC File No.: 2019010304252538

Insulation Data

Between contact sets	2000VAC, 50/60Hz 1min.
Between contact groups	2000VAC, 50/60Hz 1min.
Between contact and coil	4000VAC, 50/60Hz 1min.

Contact Data

Contact arrangement	1 FormA、2 FormA
Contact material	AgSnO2
Contact Resistance	100mΩ max(@ 6VDC 20A)
Contact Rating (resistive load)	40A 250VAC
Max. Contact Voltage	277VAC
Max. Contact Current	40A
Min. recommended contact load	1A,6VDC
Operate Time (at nominal volt.)	≤30ms (DC Type, Without Diode)
Release Time (at nominal volt.)	≤30ms (DC Type, Without Diode)
Electrical endurance	NO: Switching250VDC40A,3000 OPS.
Mechanical endurance (10,800 operations per hour at room temperature)	1,000,000次

Other Data

Material compliance	EU RoHS/ELV, China RoHS, REACH
Ambient temperature	-40°C to +85°C
Humidity	5% to 85%RH
Weight	Approx. 130g
Packaging Method	Blister Pack
Shock resistance	Functional 98m/s ² Destructive 980m/s ²
Vibration resistance	10Hz to 55Hz 1.0mm DA
Terminal Type:	Screw Terminal Quick-Connect Terminal PCB Terminal

Coil Data

Coil insulation system meets UL Class F

DC Type:

Nominal Voltage (VDC)	Rated Current ±10%(mA)	Coil Resistance (Ω)	Max. Allowable Voltage	Operate Voltage (Max.)	Release Voltage (Min.)	Rated Power (W)
3	638.30	4.7	110 % Un	80 %Un	10 %Un	1.90
6	319.15	18.8				
12	160.00	75				
24	80.00	300				
48	40.00	1200				
100	19.23	5200				
110	17.46	6300				
200	9.52	21000				

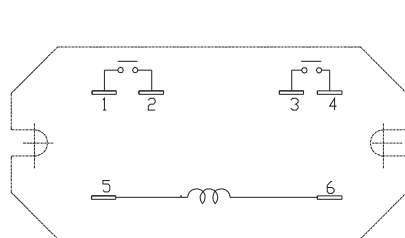
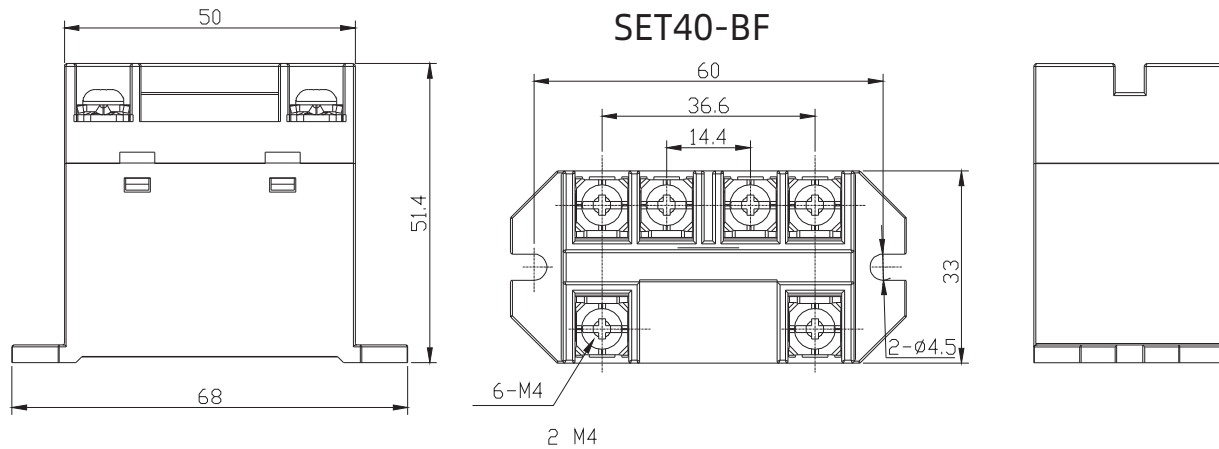
AC Type:

Nominal Voltage (VDC)	Rated Current ±10%(mA)	Coil Resistance (Ω)	Max. Allowable Voltage	Operate Voltage (Max.)	Release Voltage (Min.)	Rated Power (W)
6	275.00	18.8	110 % Un	80 %Un	10 %Un	1.7~2.5W
12	138.00	75				
24	74.00	300				
48	49.00	1200				
100/120	18.7/22.1	5200				
220/240	9.7/10.8	20800				

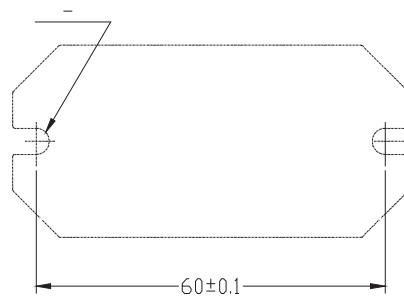
Safety certification load

Certification	Approved ratings
UL/CUL	40A 277/250/125VAC Resistive&General use TV-10, 120V AC 1.5HP, 120V AC 3 HP, 240V AC
VDE	30A 125/250/277 VAC 30A 125/250/277 VAC, cosφ=0.4
CCC	AC-1 Ie=40 A Ue=250 VAC

Dimensions



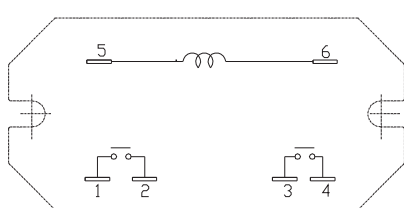
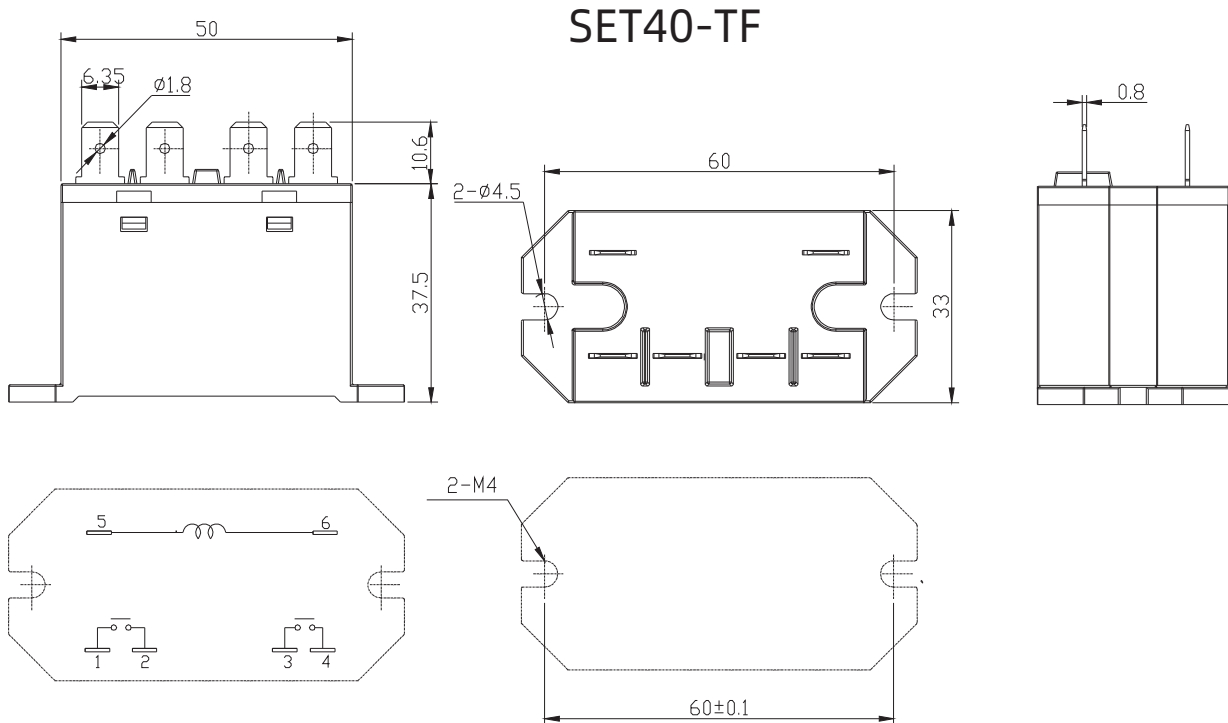
Wiring Diagrams



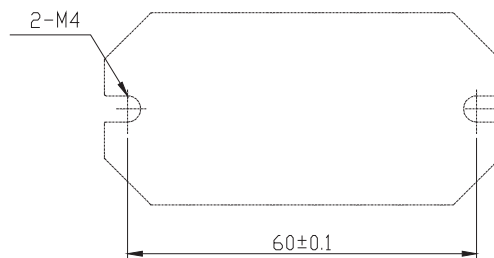
Wiring diagram (bottom view)

Unless otherwise specified:

If dimension < 1mm, tolerance: $\pm 0.2\text{mm}$;
If dimension 1~5mm, tolerance: $\pm 0.3\text{mm}$;
If dimension > 5mm, tolerance: $\pm 0.4\text{mm}$.

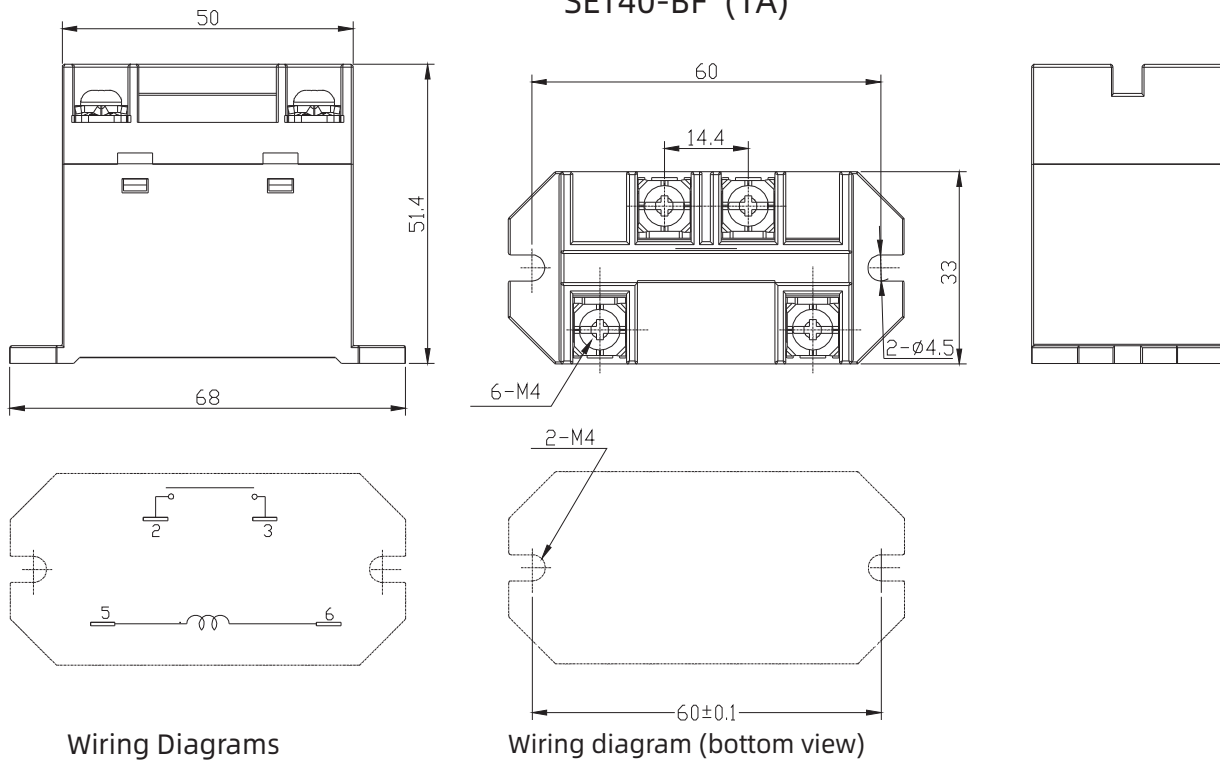


Wiring Diagrams

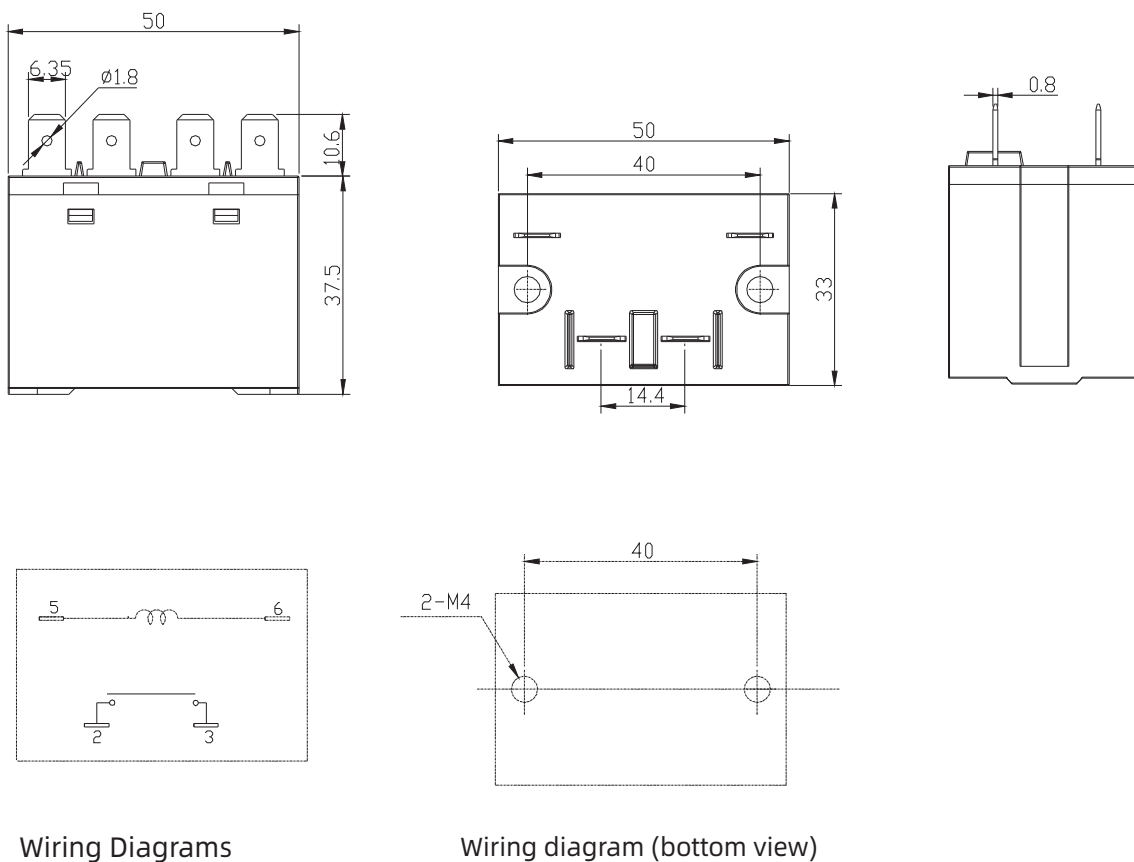


Wiring diagram (bottom view)

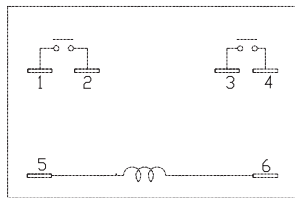
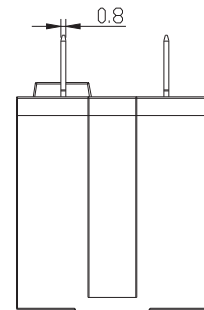
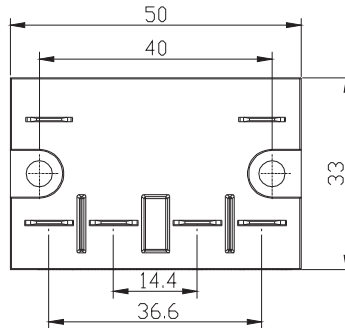
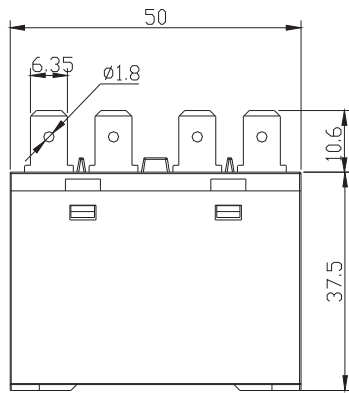
SET40-BF (1A)



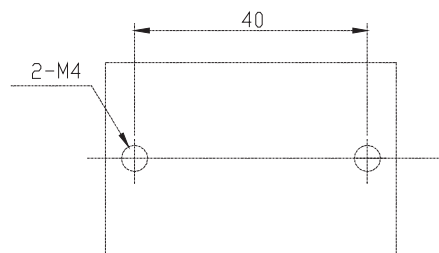
SET40-T (1A)



SET40-T

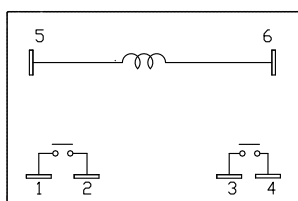
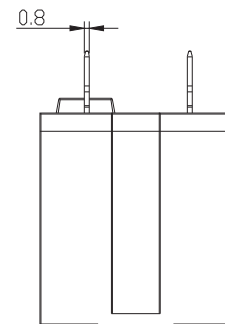
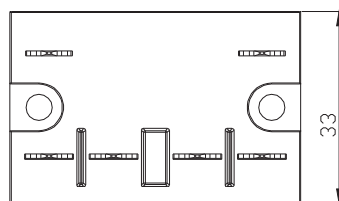
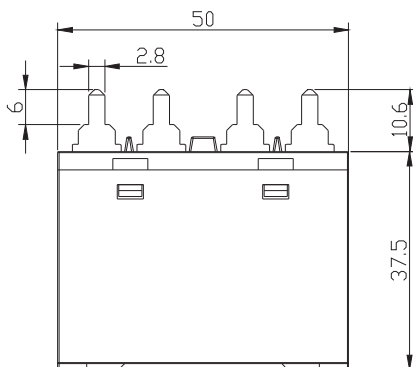


Wiring Diagrams

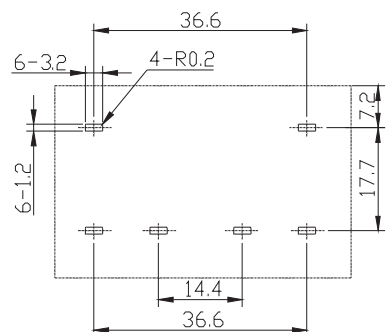


Wiring diagram (bottom view)

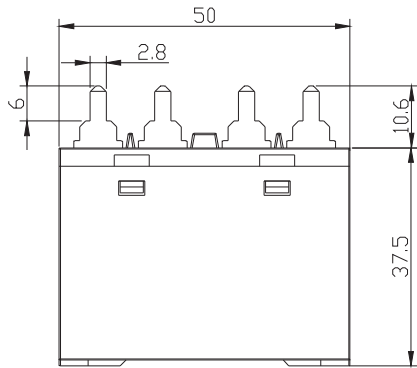
SET40-P



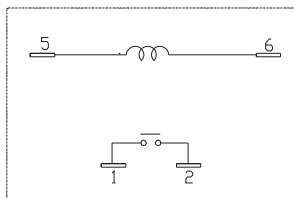
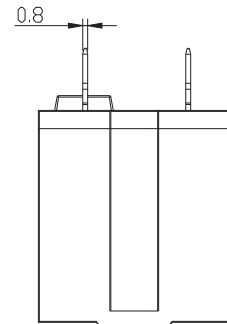
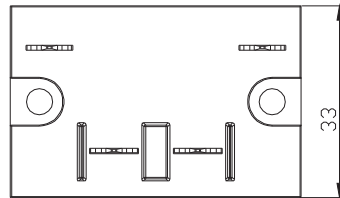
Wiring Diagrams



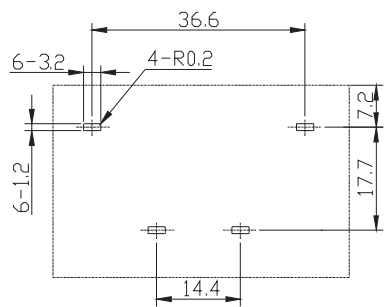
Wiring diagram (bottom view)



SET40-P(1A)

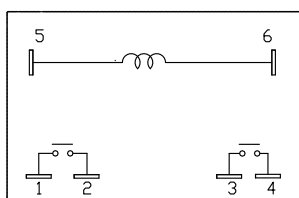
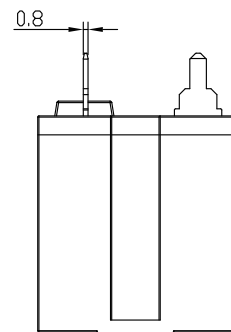
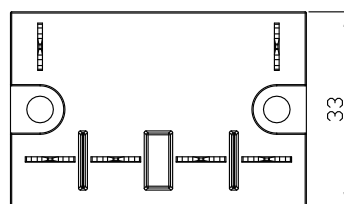
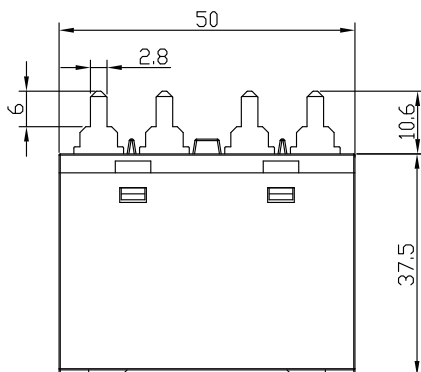


Wiring Diagrams

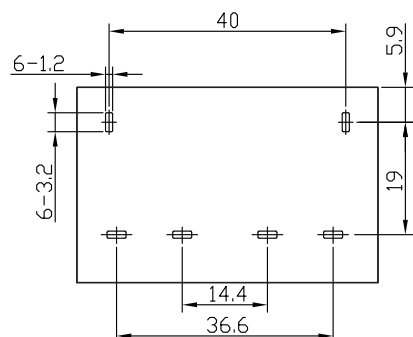


Wiring diagram (bottom view)

SET40-W



Wiring Diagrams



Wiring diagram (bottom view)

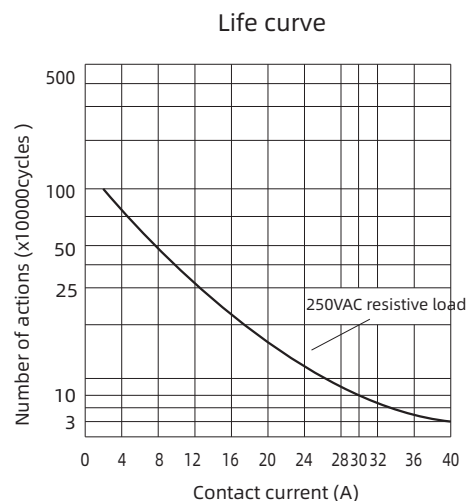
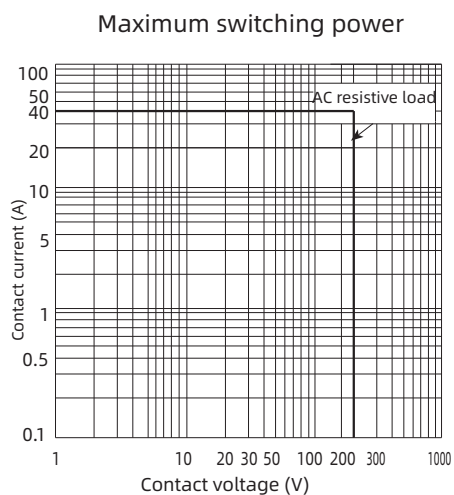
Product Code Structure

SET40 -						-		-		Special parameters:	Nil-No special parameters X: Customer-specific requirements, unrelated to structural design
										Auxiliary Contact form:	Nil-Standard type, S - Screw Terminal with Micro Switch and Lead Wires S1 - Screw Terminal with Micro Switch and Connector
										Case Type:	F - Flange Mount; None - Standard Mount
										Contact material:	Nil-AgSnO ₂
										Terminal Type:	B - Screw Terminal, T - Quick-Connect Terminal, P - PCB Terminal Type 1; W- PCB Terminal Type 2
										Coil Type:	D-DC Coil type , A-AC Coil type
										Coil specification:	DC: 03, 06, 12, 24, 48, 100, 110, 200 AC: 06, 12, 24, 48, 120, 220/240
										Number of Poles	2- 2FormA 1-1FormA
										Basic model	SET40

Typical application

- Most suitable for solar photovoltaic power inverter, UPS, charging pile, etc.

Performance curve



Precautions for Use

● About installation

Install the device in a dry place with less dust.

The mass of PCB terminal products is about 110G.
Note the strength of the printing substrate. In addition, use both sides as heat pressure reduces weld cracks. Through-hole substrate.

● Switch on load

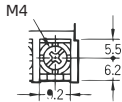
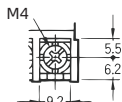
This relay is the power load switch of motor, transformer, solenoid, compressor, heater and so on. Purpose power relay. Do not use the switch for small load such as signal purpose.

● Welding of printing substrate terminal

- Manual welding, please avoid automatic welding.
- Not sealed structure, so the whole relay cannot be cleaned.

● About connection

- When using crimping terminals on screw terminals, please refer to the terminal space in the following figure.

	Screw terminal measurement
Coil terminal measurement	
Contact terminal measurement	

- When wiring, please leave some room on the wire and do not apply excessive force on the terminal.

- Tighten the torque
Coil terminal: 0.98·Nm.
Contact terminal: 1.37·Nm.
- Install torque 0.98N·m

- Be careful not to exert excessive force when inserting and removing the wire clip jack. Also, a one. Single insertion and removal, avoid oblique insertion or simultaneous insertion and removal of multiple.

- Avoid welding to the lug terminals.

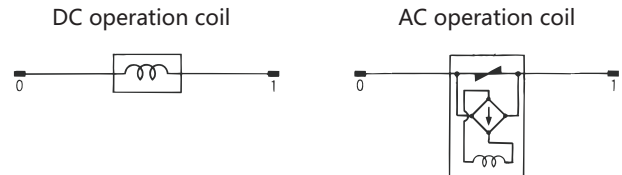
Note: When using jack terminal, please use below 30A

● About reference data

- For rated voltage AC100V~120V, the ratio of rated voltage is AC100V as the standard value.

● About operating coil

- Coil internal connection diagram



- In the case of transistor drive, please confirm leakage and current and connect the discharge resistor as required.

Poor reduction. In this case, check on the actual device.

- AC operation coil contains a full wave rectifier circuit. If using SSR and other three - terminal two-way. The controlled silicon switch drives the relay due to the characteristics of the three-terminal bi-directional SCR switch.

声明:

本产品规格书仅供客户使用时参考, 若有更改, 恕不另行通知。

对三友而言, 不可能评定继电器在每个具体应用领域的所有性能参数要求, 因而客户应该根据具体的使用条件选择与之相匹配的产品, 若有疑问, 请与三友联系获取更多的技术支持。但产品选型责任仅由客户负责。

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