



Feature

- 150 amps continuous carry
- Hermetically sealed with hydrogen gas, the arc is not exposed. Be able to use in explosive & harsh environments without oxidation or contamination of contacts
- ●Contacts' part meet protection degree
- Not position sensitive- can be mounted in any position for ease of installation
- RoHS compliant
- Auxiliary Contact: 1 Form A

Feature

●UL/CUL File No: E179745-1-44 ●CE File No: N8A 124740 0004

Contact Data

Item	Specification		
Contact arrangement	Power Contact:1 Form A Auxiliary Contact:1 Form A		
Rated current	150A		
Contact resistance	≤0.5mΩ (6V 20A Measurement)		
Min.Switching load	12VDC 1A		
Max. Switching voltage	1500VDC		
Max. Breaking current	2000A (1000VDC, 1 cycle)		
Max. Short Circuit Current	No smoke, no fire at 8000A(5ms)		
	Put through:20VDC, 150A 100000 cycles		
	Breaking:1500VDC, 20A 15000 cycles		
Electrical endurance	Handoff:1500VDC, 30A 6000 cycles		
	Breaking:1000VDC, 150A 1000 cycles		
	Breaking:1500VDC, 150A 100 cycles		

Parameters Table

Item		Information		
Mechanical life		2×10⁵ cycles		
Insulation resistance		1000MΩ(2500VDC)		
Dielectric strength	Between open contacts	4000VAC 1min 1mA		
	Between contact and coil	4000VAC 1min 1mA		
	Between main and auxiliary contactsl	4000VAC 1min 1mA		
Absorption time (at rated coil voltage)		≤30ms		
Release time (at rated coil voltage)		≤10ms		
Shock	.	98m/s² (10G)		
resistan	Destructive	490m/s² (50G)		
Vibration resistance		10Hz~55Hz 49m/s² (5G)		
Ambient temperature		-40°C~+85°C		
Ambient humidity		5%~85% RH		
Weight		350g±20g		
External dimension		88.8.0×43.0×83.3		

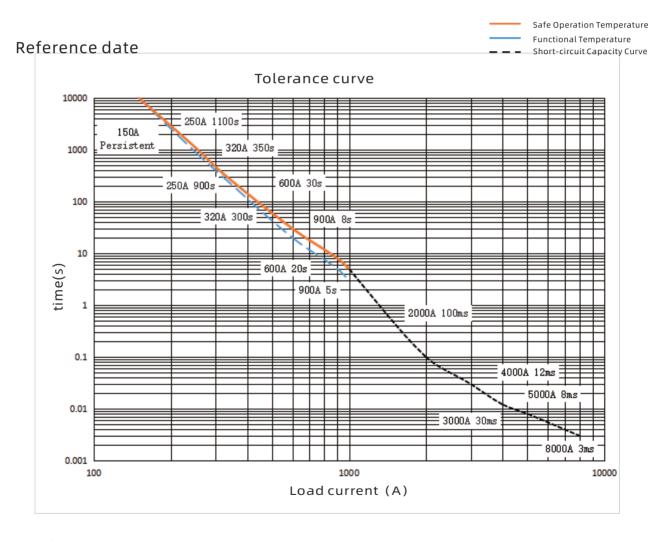
CoilData

Room temperature 23°C

Rated voltage (VDC)	Operation voltage (VDC)	Max. voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Coil resistance (±10%)(Ω)	Operating power (inrush, W)	Operating power (stable, W)
12	12	16	≤9.6	≥1.2	Starting coil:4.8 Holding coil:24.0	36.0	6.0
24	24	32	≤19.2	≥2.4	Starting coil:19.2 Holding coil:96.0	36.0	6.0

NOTES:

- (1) Unless specified otherwise, ambient temperature: 23°C, on: off /0.6s: 5.4s.
- (2) If other types of rated coil voltage is needed, please contact us.

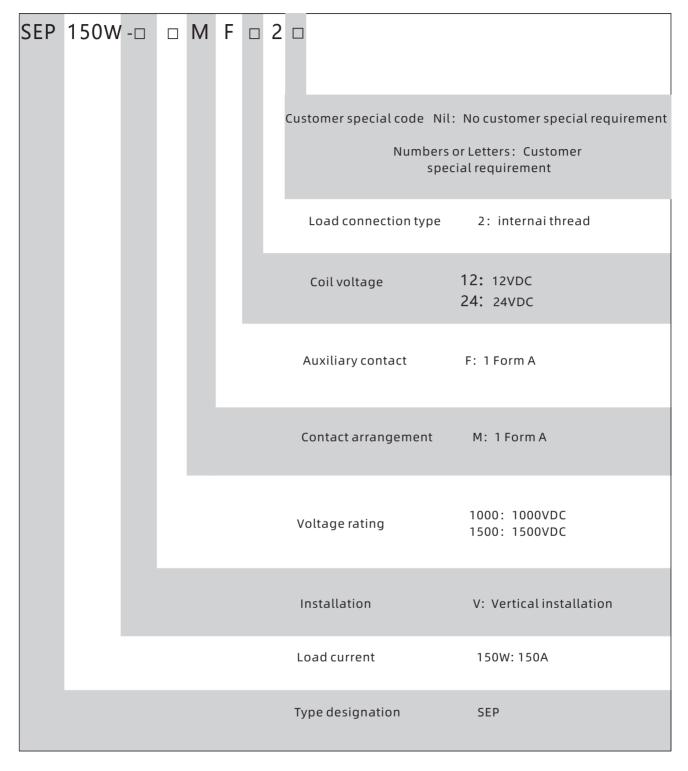


NOTE:

- (1) The upper limit of safety temperature is 180°C, upper limit of functional temperature is 150°C;
- (2) Ambient temperature is 85°C, wire cross sectional area ≥50mm²; (Test conditions for this curve)
- (3) The data greater than 2000A is the data of short circuit resistance of relay. The relay can guarantee no fire or explosion within this curve. When the current is greater than 6000A, the relay contact may be repulsed by a large current.

Ordering Information

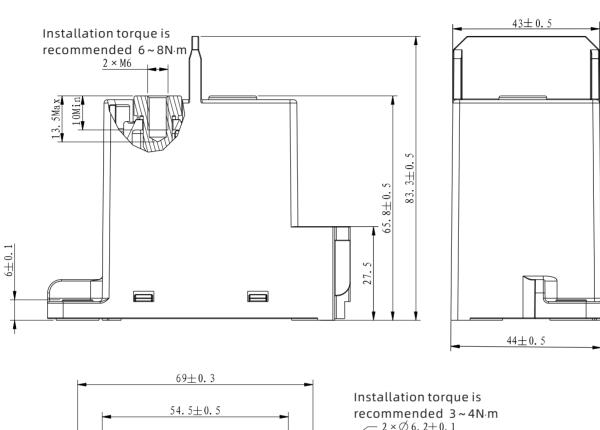
Nomenclature

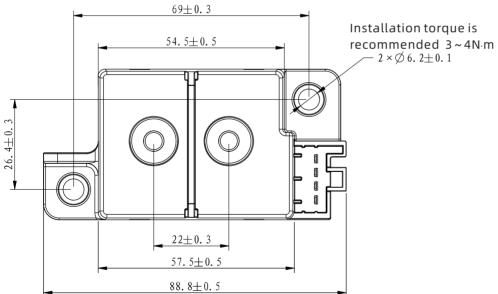


Packing style: 36/box

Outline Dimensions

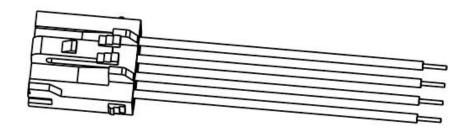
SEP150W-XXXXMFXX2



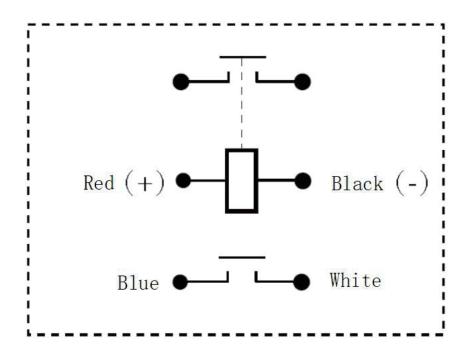


Coil Connection Type

Connectors: Yazaki: 7283-1044 or Tianhai:0488701(Customer self configuration)



Schematic Diagram



Note: No polarity at the load end, polarity at the coil end

NOTES:

- Mounting Precautions
- 1.By principle, please do not use it when the relay drops on the ground.
- 2.It's forbidden use the product at the temperature beyond -40 $^{\circ}$ C \sim 85 $^{\circ}$ C for a long time as the relay contacts are sealed and filled with gas and when the contact temperature changes, the gas will break the ceramic sealed chamber .
- 3. When installing the relay, always use washers to prevent the screws from loosening.
- 4. Tighten each screw with given torque as suggested. Exceeding the maximum torque may result in screw loose, breakage, etc. When using screws, please make sure the washers are strong enough to prevent the case from deformation.
- 5. Avoid mounting the relay near strong magnetic fields or a heat generator .
- Precautions for connection of the load terminals
- 1. Please avoid excessive load applied to the product. If the product exceeds the rated range, the performance of the product cannot be guaranteed.
- 2. Please treat the relay as a product with limited life and replace it when necessary.
- 3.Be careful that foreign particles or oil attach on the terminals, which will lead to abnormal heating on terminals. And below connectors or conductors with sizes are suggested.

10A	Min. 2mm ² nominal cross-sectional area
20A	Min. 3mm ² nominal cross-sectional area
40A	Min. 10mm ² nominal cross-sectional area
60A	Min. 15mm ² nominal cross-sectional area
100A	Min. 35mm ² nominal cross-sectional area
150A	Min. 45mm ² nominal cross-sectional area
200A	Min. 60mm ² nominal cross-sectional area
250A	Min. 80mm ² nominal cross-sectional area
300A	Min. 100mm ² nominal cross-sectional area
400A	Min. 200mm ² nominal cross-sectional area

Coil Attention

- 1. Please note that when using a diode, the switching speed may decrease and cause a reduction in cut-off performance, we recommend installing a surge protector varistor.
- 2. The pick-up voltage and drop-out voltage will change with ambient temperature, please use rated voltage to make sure the relay operate reliable. Don't exceed maximum coil voltage.
- 3. Please do not continuously load the maximum voltage on the coil.
- 4. For products with energy-saving plates, it is recommended to use a fast rise (step power supply method) for coil drive.
- 5. For products with energy-saving boards, the coil current will be automatically switched after 0.1s, please do not switch the coil voltage repeatedly within < 0.1s, otherwise the product performance cannot be guaranteed.

Disclaimer:

We could not evaluate all the performance and parameters for every possible application. Thus the users should be in a right position to choose the suitable product for their own application. If there is any query, please contact Sanyou for technical service. However it is the users' responsibility to determine which product should be used only.

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