

EVI-30**High voltage DC Relay****1 Product Features**

- ◆Special Epoxy seal, No arc leakage, protection class IP68
- ◆Compact structure, low noise
- ◆The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆30A 85℃ long time current carrying capacity
- ◆The insulation resistance reaches 1000MΩ (1000VDC) and meets the requirements of IEC60664-1

**2 Performance Data**

Parameter		Units	Value
Contact Form		/	1 Form A
Contact Rated Load		A	30
Mechanical Durability		Ops	3×10^5
Max. Switching Voltage		VDC	1000
Max. Breaking Current		/	300A(320V DC) 1 times
Current Tolerance ¹⁾		/	60A: 60min; 80A: 20min; 160A: 30s; 300A: 0.6s
Contact Resistance		mΩ	$\leq 1@20A$
Operate Time (at rated voltage)		ms	30Max.
Release Time (at rated voltage)		ms	10Max.
Insulation Resistance		MΩ	1000 (1000VDC)
Dielectric Withstand Voltage	Between Open Contacts	/	3000VAC 50 Hz/60 Hz
	Between Contacts and Coil	/	3000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	30A 450VDC (DC-1)	Ops	2×10^4
	30A 750VDC (DC-1)	Ops	1×10^4
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Operating Temp		℃	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	125
Outline Dimensions		/	Reference outline drawing

Remark: 1) please refer to the attached figure "tolerance curve". 2) The on-off ratio is 0.6s: 5.4s. Please note that if the coil parallel diode is used, the release time of the relay will be greatly prolonged and the service life will be reduced.

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POSTAL CODE:200063

3 Coil Parameters

Nominal Voltage(Us)	12V DC	24V DC	48V DC
Operating Voltage Range	±20%Us	±20%Us	±20%Us
Pickup Voltage	9Vmax	18Vmax	36Vmax
Dropout Voltage	(1~5)V	(2~9)V	(4~18)V
Coil Power	3.8W	3.8W	3.8W

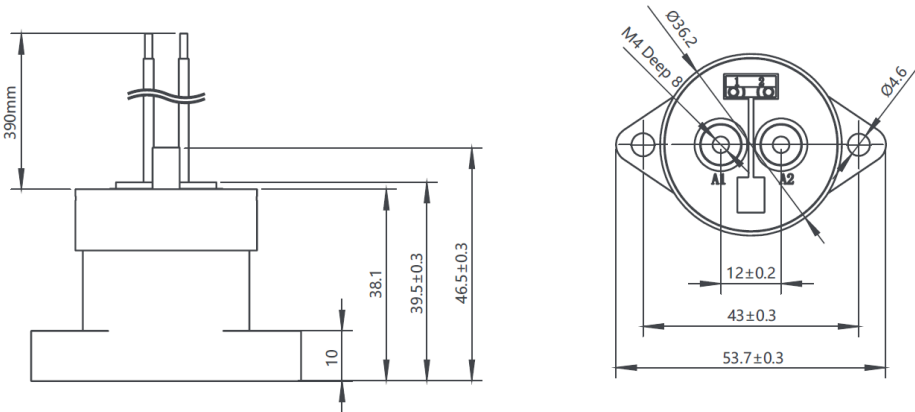
4 Example of order marking

EV I - 30 A / 750 - 12 C F 5 (XXX)

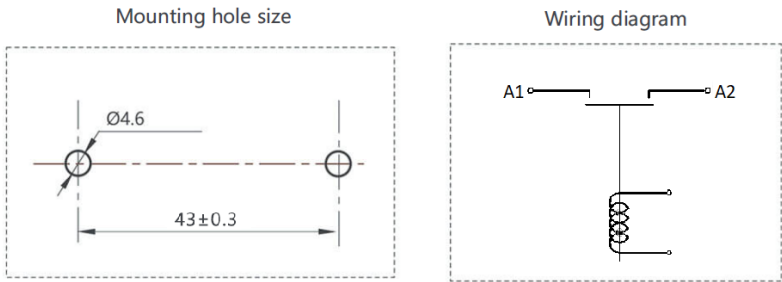
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Product Model: EV
- ② Product Type: I: Epoxy Sealed Type
- ③ Series Code: 30: 30A
- ④ Contact form: A: 1 Form A
- ⑤ Load Voltage: Blank: 450VDC、750: 750VDC
- ⑥ Nominal coil voltage: 12: 12VDC、24: 24VDC.....
- ⑦ Coil Lead-out Mode: Blank: None – Stripped Wires、C: Connector
- ⑧ With Auxiliary Contact Or Not: Blank: Without、F: With Normally Open Auxiliary Contacts
- ⑨ Form Of Load Outlet: 4: Internal Thread、5: External Thread
- ⑩ Characteristics Code: Subject To Customer Requirements

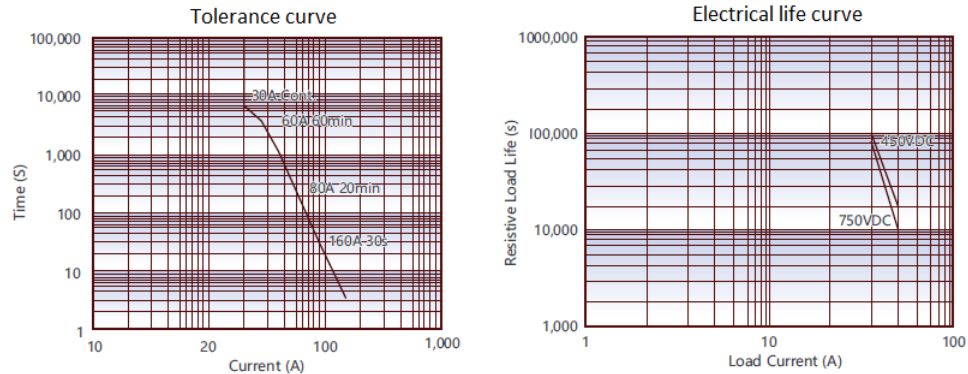
5 Outline drawing



6 Mounting hole/Wiring diagram



7 Performance graph



Remark: 1) The above data is measured under the conditions of ambient temperature 85℃ and the sectional area of conductor wire $\geq 10\text{mm}^2$. The data is for reference only, do not use it to select fuse directly.

2) Rated electrical life number is based on resistive load. Test underswitch on/off. Switch on for 0.6s and off for 5.4s.

8 Precautions for use

- ※ When installing the product, the Torque of the fastening bolt should be kept within the specified range, exceeding the maximum value may cause the product to break.
- ※ Please connect according to the schematic diagram. When the wiring is wrong, it may cause accidental misoperation and abnormal heating. Please pay attention to it.
- ※ Avoid installing products in areas directly affected by rain, or in areas with a strong magnetic field, or near objects with heat radiation.
- ※ If the relay coil and contact of the relay continuously at rated voltage (or current), the power is switched on immediately after it was cut off, at this time because the coil temperature increases, the resistance of the coil increases, which makes the product pull-in voltage increase, then it may lead to exceed the rated pull-in voltage.
- ※ If applied to inductive load (I load) at the same time $L/R > 1\text{ ms}$, it is recommended that the inductive load be connected in parallel with a surge current protection device, otherwise, it may cause the product electrical life shortened, the main contact broken bad.
- ※ The drive circuit power of the product coil must be greater than the coil power of the product, otherwise the on-off ability of the product will be reduced.
- ※ Please to avoid sticking grease and other foreign bodies on the leading-out piece, and use the connection wire of 10mm^2 or above, otherwise abnormal heating may be caused at the leading-out end.

⚠Statement:

The document is for customer reference only. Specifications and parameters may be changed due to product improvement. For the specific parameters and performance of each product, please refer to the specifications and samples provided by without further notice.

Relay performance parameters in different application areas are different, so customers should choose the appropriate products according to the specific conditions of use, if in doubt, please contact for more technical support.

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EVI-50**High voltage DC Relay****1 Product Features**

- ◆Special Epoxy seal, No arc leakage, protection class IP68
- ◆Compact structure, low noise
- ◆The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆50A 85℃ long time current carrying capacity
- ◆The insulation resistance reaches 1000MΩ (1000VDC) and meets the requirements of IEC60664-1

**2 Performance Data**

Parameter		Units	Value
Contact Form		/	1 Form A
Contact Rated Load		A	50
Mechanical Durability		Ops	3×10^5
Max. Switching Voltage		VDC	1000
Max. Breaking Current		/	500A(320V DC) 1 times
Current Tolerance ¹⁾		/	80A: 10min; 120A: 1min; 500A: 1s
Contact Resistance		mΩ	$\leq 1@20A$
Operating Time (at rated voltage)		ms	30Max.
Release Time (at rated voltage)		ms	10Max.
Insulation Resistance		MΩ	1000 (1000VDC)
Dielectric Withstand Voltage	Between Open Contacts	/	3000VAC 50 Hz/60 Hz
	Between Contacts and Coil	/	3000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	50A 450VDC (DC-1)	Ops	1.5×10^4
	50A 750VDC (DC-1)	Ops	5×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Operating Temp		℃	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	190
Outline Dimensions		/	Reference outline drawing

Remark: 1) please refer to the attached figure "tolerance curve". 2) The on-off ratio is 0.6s: 5.4s. Please note that if the coil parallel diode is used, the release time of the relay will be greatly prolonged and the service life will be reduced.

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3 Coil Parameters

Nominal Voltage(Us)	12V DC	24V DC	48V DC
Operating Voltage Range	±20%Us	±20%Us	±20%Us
Pickup Voltage	9Vmax	18Vmax	36Vmax
Dropout Voltage	(1~5)V	(2~9)V	(4~18)V
Coil Power	5.5W	6W	6W

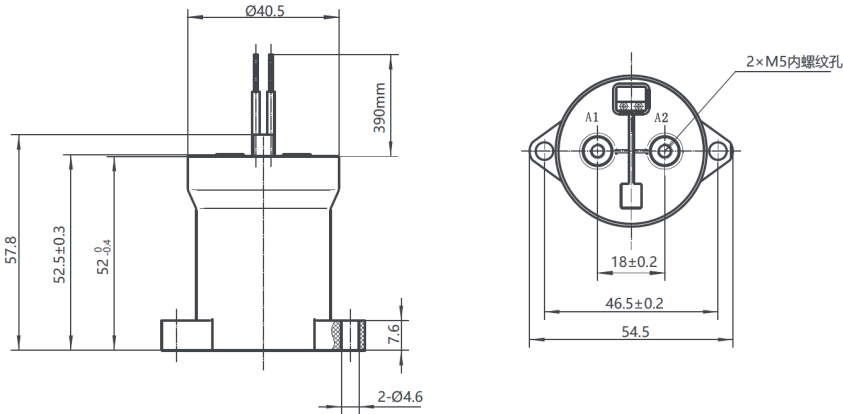
4 Example of order marking

EV I - 50 A / 750 - 12 C F 5 (XXX)

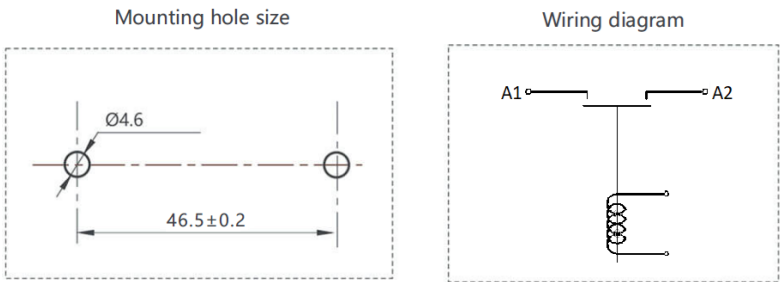
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Product Model: EV
- ② Product Type: I: Epoxy Sealed Type
- ③ Series Code: 50: 50A
- ④ Contact form: A: 1 Form A
- ⑤ Load Voltage: Blank: 450VDC、750: 750VDC
- ⑥ Nominal coil voltage: 12: 12VDC、24: 24VDC.....
- ⑦ Coil Lead-out Mode: Blank: None – Stripped Wires、C: Connector
- ⑧ With Auxiliary Contact Or Not: Blank: Without、F: With Normally Open Auxiliary Contacts
- ⑨ Form Of Load Outlet: 4: Internal Thread、5: External Thread
- ⑩ Characteristics Code: Subject To Customer Requirements

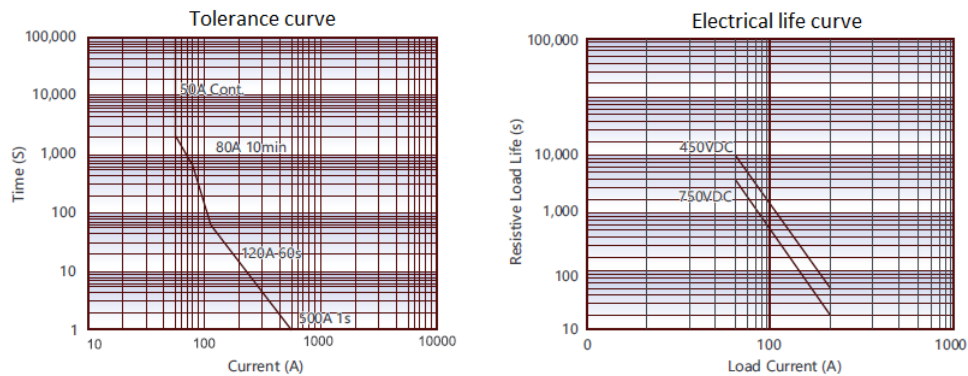
5 Outline drawing



6 Mounting hole/Wiring diagram



7 Performance graph



Remark: 1) The above data is measured under the conditions of ambient temperature 85℃ and the sectional area of conductor wire $\geq 14\text{mm}^2$. The data is for reference only, do not use it to select fuse directly.

2) Rated electrical life number is based on resistive load. Test underswitch on/off. Switch on for 0.6s and off for 5.4s.

8 Precautions for use

- ※ When installing the product, the Torque of the fastening bolt should be kept within the specified range, exceeding the maximum value may cause the product to break.
- ※ Please connect according to the schematic diagram. When the wiring is wrong, it may cause accidental misoperation and abnormal heating. Please pay attention to it.
- ※ Avoid installing products in areas directly affected by rain, or in areas with a strong magnetic field, or near objects with heat radiation.
- ※ If the relay coil and contact of the relay continuously at rated voltage (or current), the power is switched on immediately after it was cut off, at this time because the coil temperature increases, the resistance of the coil increases, which makes the product pull-in voltage increase, then it may lead to exceed the rated pull-in voltage.
- ※ If applied to inductive load (I load) at the same time $L/R > 1\text{ ms}$, it is recommended that the inductive load be connected in parallel with a surge current protection device, otherwise, it may cause the product electrical life shortened, the main contact broken bad.
- ※ The drive circuit power of the product coil must be greater than the coil power of the product, otherwise the on-off ability of the product will be reduced.
- ※ Please to avoid sticking grease and other foreign bodies on the leading-out piece, and use the connection wire of 14mm^2 or above, otherwise abnormal heating may be caused at the leading-out end.

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EVI-100**High voltage DC Relay****1 Product Features**

- ◆Special Epoxy seal, No arc leakage, protection class IP68
- ◆Compact structure, low noise
- ◆The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆100A 85℃ long time current carrying capacity
- ◆The insulation resistance reaches 1000MΩ (1000VDC) and meets the requirements of IEC60664-1

**2 Performance Data**

Parameter		Units	Value
Contact Form		/	1 Form A
Contact Rated Load		A	100
Mechanical Durability		Ops	3×10^5
Max. Switching Voltage		VDC	1000
Max. Breaking Current		/	1000A(320V DC) 1 times
Current Tolerance ¹⁾		/	200A: 90s; 300A: 30s; 1000A: 0.6s
Contact Resistance		mΩ	$\leq 1@20A$
Operating Time (at rated voltage)		ms	30Max.
Release Time (at rated voltage)		ms	10Max.
Insulation Resistance		MΩ	1000 (1000VDC)
Dielectric Withstand Voltage	Between Open Contacts	/	3000VAC 50 Hz/60 Hz
	Between Contacts and Coil	/	3000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	100A 450VDC (DC-1)	Ops	1×10^4
	100A 750VDC (DC-1)	Ops	2.5×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Operating Temp		℃	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	190
Outline Dimensions		/	Reference outline drawing

Remark: 1) please refer to the attached figure "tolerance curve". 2) The on-off ratio is 0.6s: 5.4s. Please note that if the coil parallel diode is used, the release time of the relay will be greatly prolonged and the service life will be reduced. r

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3 Coil Paramete rs

Nominal Voltage(Us)	12V DC	24V DC	48V DC
Operating Voltage Range	±20%Us	±20%Us	±20%Us
Pickup Voltage	9Vmax	18Vmax	36Vmax
Dropout Voltage	(1~5)V	(2~9)V	(4~18)V
Coil Power	5.5W	6W	6W

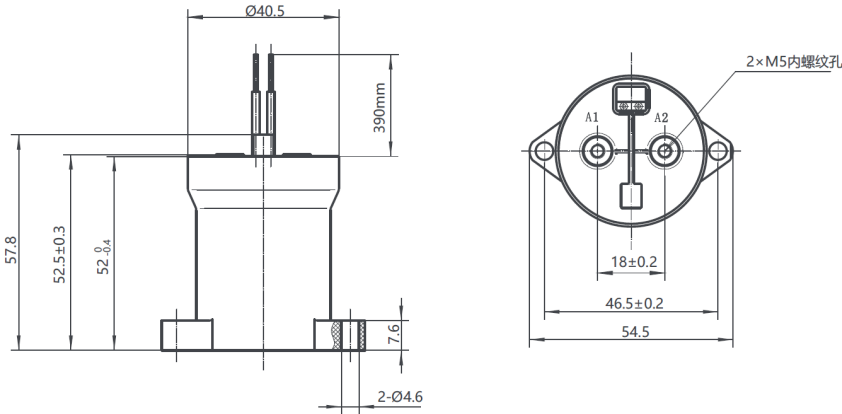
4 Example of order marking

EV I - 100 A / 750 - 12 C F 5 (XXX)

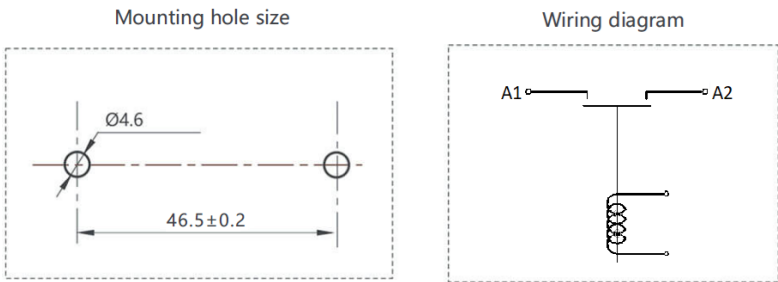
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Product Model: EV
- ② Product Type: I: Epoxy Sealed Type
- ③ Series Code: 100: 100A
- ④ Contact form: A: 1 Form A
- ⑤ Load Voltage: Blank: 450VDC、750: 750VDC
- ⑥ Nominal coil voltage: 12: 12VDC、24: 24VDC.....
- ⑦ Coil Lead-out Mode: Blank: None – Stripped Wires、C: Connector
- ⑧ With Auxiliary Contact Or Not: Blank: Without、F: With Normally Open Auxiliary Contacts
- ⑨ Form Of Load Outlet: 4: Internal Thread、5: External Thread
- ⑩ Characteristics Code: Subject To Customer Requirements

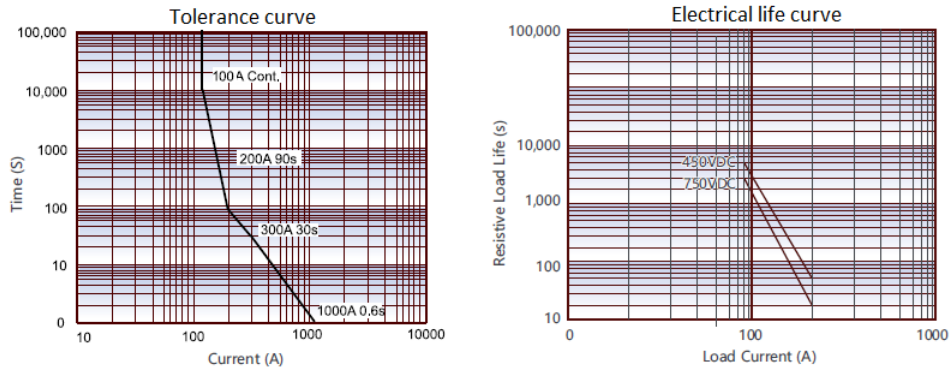
5 Outline drawing



6 Mounting hole/Wiring diagram



7 Performance graph



Remark: 1) The above data is measured under the conditions of ambient temperature 85°C and the sectional area of conductor wire $\geq 35\text{mm}^2$. The data is for reference only, do not use it to select fuse directly.

2) Rated electrical life number is based on resistive load. Test underswitch on/off. Switch on for 0.6s and off for 5.4s.

8 Precautions for use

- ※ When installing the product, the Torque of the fastening bolt should be kept within the specified range, exceeding the maximum value may cause the product to break.
- ※ Please connect according to the schematic diagram. When the wiring is wrong, it may cause accidental misoperation and abnormal heating. Please pay attention to it.
- ※ Avoid installing products in areas directly affected by rain, or in areas with a strong magnetic field, or near objects with heat radiation.
- ※ If the relay coil and contact of the relay continuously at rated voltage (or current), the power is switched on immediately after it was cut off, at this time because the coil temperature increases, the resistance of the coil increases, which makes the product pull-in voltage increase, then it may lead to exceed the rated pull-in voltage.
- ※ If applied to inductive load (I load) at the same time $L/R > 1\text{ ms}$, it is recommended that the inductive load be connected in parallel with a surge current protection device, otherwise, it may cause the product electrical life shortened, the main contact broken bad.
- ※ The drive circuit power of the product coil must be greater than the coil power of the product, otherwise the on-off ability of the product will be reduced.
- ※ Please to avoid sticking grease and other foreign bodies on the leading-out piece, and use the connection wire of 35mm^2 or above, otherwise abnormal heating may be caused at the leading-out end.

⚠Statement:

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EVI-150**High voltage DC Relay****1 Product Features**

- ◆Special Epoxy seal, No arc leakage, protection class IP68
- ◆Compact structure, low noise
- ◆The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆150A 85℃ long time current carrying capacity
- ◆The insulation resistance reaches 1000MΩ (1000VDC) and meets the requirements of IEC60664-1

**2 Performance Data**

Parameter		Units	Value
Contact Form		/	1 Form A
Contact Rated Load		A	150
Mechanical Durability		Ops	3×10^5
Max. Switching Voltage		VDC	750
Max. Breaking Current		/	1500A(320V DC) 1 times
Current Tolerance ¹⁾		/	200A: 10min; 300A: 1min; 1000A: 1s
Contact Resistance		mΩ	$\leq 1@20A$
Operating Time (at rated voltage)		ms	30Max.
Release Time (at rated voltage)		ms	10Max.
Insulation Resistance		MΩ	1000 (1000VDC)
Dielectric Withstand Voltage	Between Open Contacts	/	3000VAC 50 Hz/60 Hz
	Between Contacts and Coil	/	3000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	150A 450VDC (DC-1)	Ops	5×10^3
	150A 750VDC (DC-1)	Ops	2×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Auxiliary Contact (On demand)	Form	/	NO
	Rated Load	/	2A/30VDC、3A/125VAC
	Min. Operating Voltage Current	/	0.1A/8V
Operating Temp		℃	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	395
Outline Dimensions		/	Reference outline drawing

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Remark: 1) please refer to the attached figure "tolerance curve". 2) The on-off ratio is 0.6s: 5.4s. Please note that if the coil parallel diode is used, the release time of the relay will be greatly prolonged and the service life will be reduced.

3 Coil Parameters

Nominal Voltage(Us)	12V DC	24V DC
Operating Voltage Range	±20%Us	±20%Us
Pickup Voltage	9Vmax	9Vmax
Dropout Voltage	(4~7)V	(4~7)V
Coil Power	When switched on: 26W, When holding: 3W	When switched on: 26W, When holding: 3W

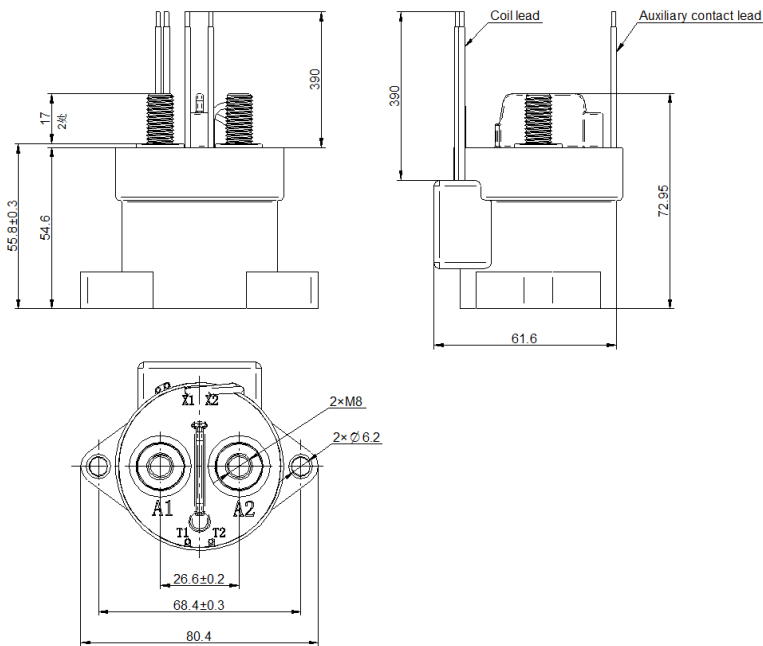
4 Example of order marking

EV I - 150 A / 750 - A C F 5 (XXX)

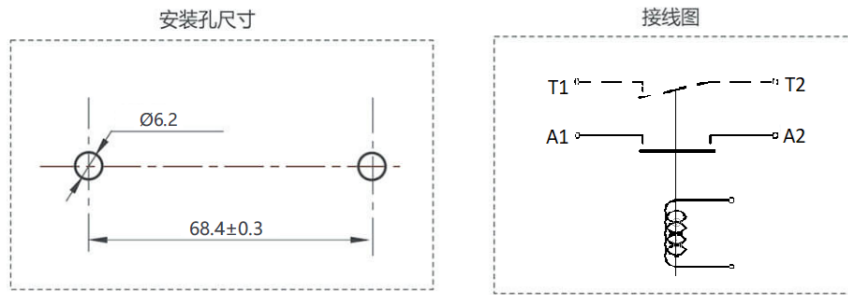
①②③④⑤⑥⑦⑧⑨⑩

- ① Product Model: EV
- ② Product Type: I: Epoxy Sealed Type
- ③ Series Code: 150: 150A
- ④ Contact form: A: 1 Form A
- ⑤ Load Voltage: Blank: 450VDC、750: 750VDC
- ⑥ Nominal coil voltage: A: (12~24)VDC
- ⑦ Coil Lead-out Mode: Blank: None – Stripped Wires、C: Connector
- ⑧ With Auxiliary Contact Or Not: Blank: Without、F: With Normally Open Auxiliary Contacts
- ⑨ Form Of Load Outlet: 4: Internal Thread、5: External Thread
- ⑩ Characteristics Code: Subject To Customer Requirements

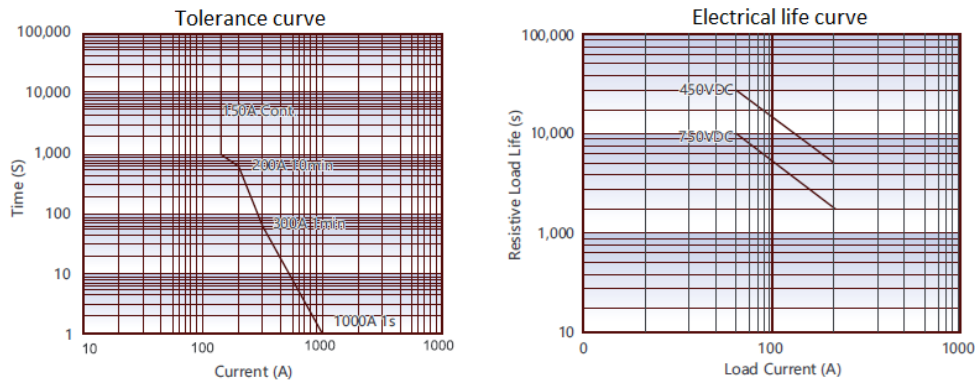
5 Outline drawing



6 Mounting hole/Wiring diagram



7 Performance graph



Remark: 1) The above data is measured under the conditions of ambient temperature 85°C and the sectional area of conductor wire $\geq 50\text{mm}^2$. The data is for reference only, do not use it to select fuse directly.

2) Rated electrical life number is based on resistive load. Test underswitch on/off. Switch on for 0.6s and off for 5.4s.

8 Precautions for use

- ※ When installing the product, the Torque of the fastening bolt should be kept within the specified range, exceeding the maximum value may cause the product to break.
- ※ Please connect according to the schematic diagram. When the wiring is wrong, it may cause accidental misoperation and abnormal heating. Please pay attention to it.
- ※ Avoid installing products in areas directly affected by rain, or in areas with a strong magnetic field, or near objects with heat radiation.
- ※ If the relay coil and contact of the relay continuously at rated voltage (or current), the power is switched on immediately after it was cut off, at this time because the coil temperature increases, the resistance of the coil increases, which makes the product pull-in voltage increase, then it may lead to exceed the rated pull-in voltage.
- ※ If applied to inductive load (I load) at the same time $L/R > 1\text{ ms}$, it is recommended that the inductive load be connected in parallel with a surge current protection device, otherwise, it may cause the product electrical life shortened, the main contact broken bad.
- ※ The drive circuit power of the product coil must be greater than the coil power of the product, otherwise the on-off ability of the product will be reduced.
- ※ Please to avoid sticking grease and other foreign bodies on the leading-out piece, and use the connection wire of 50mm^2 or above, otherwise abnormal heating may be caused at the leading-out end.

⚠ Statement:

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Performance parameters in different application areas are different, so products according to the specific conditions of use, if in doubt, please contact more technical support.

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EVI-200**High voltage DC Relay****1 Product Features**

- ◆Special Epoxy seal, No arc leakage, protection class IP68
- ◆Compact structure, low noise
- ◆The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆200A 85℃ long time current carrying capacity
- ◆The insulation resistance reaches 1000MΩ (1000VDC) and meets the requirements of IEC60664-1

**2 Performance Data**

Parameter		Units	Value
Contact Form		/	1 Form A
Contact Rated Load		A	200
Mechanical Durability		Ops	3×10^5
Max. Switching Voltage		VDC	750
Max. Breaking Current		/	2000A(320V DC) 1 times
Current Tolerance ¹⁾		/	300A: 10min; 400A: 1min; 2000A: 1s
Contact Resistance		mΩ	$\leq 1@20A$
Operating Time (at rated voltage)		ms	30Max.
Release Time (at rated voltage)		ms	10Max.
Insulation Resistance		MΩ	1000 (1000VDC)
Dielectric Withstand Voltage	Between Open Contacts	/	3000VAC 50 Hz/60 Hz
	Between Contacts and Coil	/	3000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	200A 450VDC (DC-1)	Ops	3×10^3
	200A 750VDC (DC-1)	Ops	1.5×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Auxiliary Contact (On demand)	Form	/	NO
	Rated Load	/	2A/30VDC、3A/125VAC
	Min. Operating Voltage Current	/	0.1A/8V
Operating Temp		℃	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	395
Outline Dimensions		/	Reference outline drawing

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Remark: 1) please refer to the attached figure "tolerance curve". 2) The on-off ratio is 0.6s: 5.4s. Please note that if the coil parallel diode is used, the release time of the relay will be greatly prolonged and the service life will be reduced.

3 Coil Parameters

Nominal Voltage(Us)	12V DC	24V DC
Operating Voltage Range	±20%Us	±20%Us
Pickup Voltage	9Vmax	9Vmax
Dropout Voltage	(4~7)V	(4~7)V
Coil Power	When switched on: 26W, When holding: 3W	When switched on: 26W, When holding: 3W

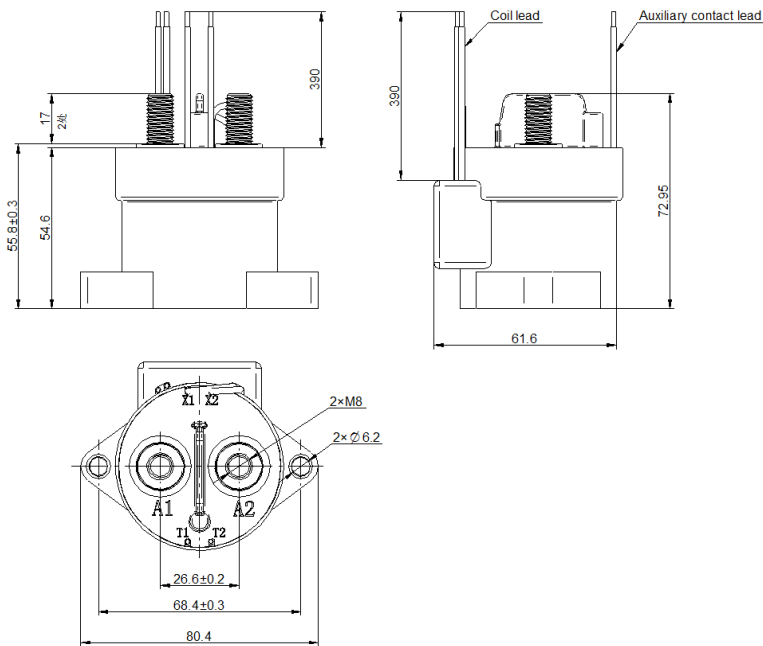
4 Example of order marking

EV I - 200 A / 750 - A C F 5 (XXX)

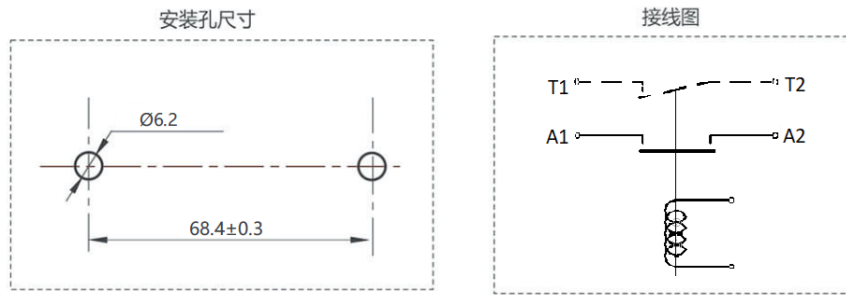
①②③④⑤⑥⑦⑧⑨⑩

- ① Product Model: EV
- ② Product Type: I: Epoxy Sealed Type
- ③ Series Code: 200: 200A
- ④ Contact form: A: 1 Form A
- ⑤ Load Voltage: Blank: 450VDC、750: 750VDC
- ⑥ Nominal coil voltage: A: (12~24)VDC
- ⑦ Coil Lead-out Mode: Blank: Non e – Stripped Wires、C: Connector
- ⑧ With Auxiliary Contact Or Not: Blank: Without、F: With Normally Open Auxiliary Contacts
- ⑨ Form Of Load Outlet: 4: Internal Thread、5: External Thread
- ⑩ Characteristics Code: Subject To Customer Requirements

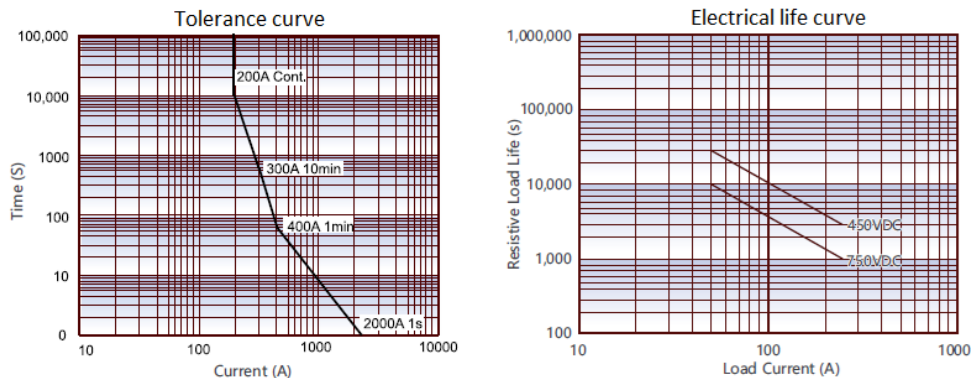
5 Outline drawing



6 Mounting hole/Wiring diagram



7 Performance graph



Remark: 1) The above data is measured under the conditions of ambient temperature 85°C and the sectional area of conductor wire $\geq 60\text{mm}^2$. The data is for reference only, do not use it to select fuse directly.
2) Rated electrical life number is based on resistive load. Test underswitch on/off. Switch on for 0.6s and off for 5.4s.

8 Precautions for use

- ※ When installing the product, the Torque of the fastening bolt should be kept within the specified range, exceeding the maximum value may cause the product to break.
- ※ Please connect according to the schematic diagram. When the wiring is wrong, it may cause accidental misoperation and abnormal heating. Please pay attention to it.
- ※ Avoid installing products in areas directly affected by rain, or in areas with a strong magnetic field, or near objects with heat radiation.
- ※ If the relay coil and contact of the relay continuously at rated voltage (or current), the power is switched on immediately after it was cut off, at this time because the coil temperature increases, the resistance of the coil increases, which makes the product pull-in voltage increase, then it may lead to exceed the rated pull-in voltage.
- ※ If applied to inductive load (I load) at the same time $L/R > 1\text{ ms}$, it is recommended that the inductive load be connected in parallel with a surge current protection device, otherwise, it may cause the product electrical life shortened, the main contact broken bad.
- ※ The drive circuit power of the product coil must be greater than the coil power of the product, otherwise the on-off ability of the product will be reduced.
- ※ Please to avoid sticking grease and other foreign bodies on the leading-out piece, and use the connection wire of 60mm^2 or above, otherwise abnormal heating may be caused at the leading-out end.

⚠ Statement:

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for

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EVI-250**High voltage DC Relay****1 Product Features**

- ◆Special Epoxy seal, No arc leakage, protection class IP68
- ◆Compact structure, low noise
- ◆The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆250A 85℃ long time current carrying capacity
- ◆The insulation resistance reaches 1000MΩ (1000VDC) and meets the requirements of IEC60664-1

**2 Performance Data**

Parameter		Units	Value
Contact Form		/	1 Form A
Contact Rated Load		A	250
Mechanical Durability		Ops	3×10^5
Max. Switching Voltage		VDC	750
Max. Breaking Current		/	2000A(320V DC) 1 times
Current Tolerance ¹⁾		/	320A: 10min; 500A: 1min; 2000A: 1s
Contact Resistance		mΩ	$\leq 1@20A$
Operating Time (at rated voltage)		ms	30Max.
Release Time (at rated voltage)		ms	10Max.
Insulation Resistance		MΩ	1000 (1000VDC)
Dielectric Withstand Voltage	Between Open Contacts	/	3000VAC 50 Hz/60 Hz
	Between Contacts and Coil	/	3000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	250A 450VDC (DC-1)	Ops	2×10^3
	250A 750VDC (DC-1)	Ops	1×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Auxiliary Contact (On demand)	Form	/	NO
	Rated Load	/	2A/30VDC、3A/125VAC
	Min. Operating Voltage Current	/	0.1A/8V
Operating Temp		℃	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	395
Outline Dimensions		/	Reference outline drawing

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Remark: 1) please refer to the attached figure "tolerance curve". 2) The on-off ratio is 0.6s: 5.4s. Please note that if the coil parallel diode is used, the release time of the relay will be greatly prolonged and the service life will be reduced.

3 Coil Parameters

Nominal Voltage(Us)	12V DC	24V DC
Operating Voltage Range	±20%Us	±20%Us
Pickup Voltage	9Vmax	9Vmax
Dropout Voltage	(4~7)V	(4~7)V
Coil Power	When switched on: 26W, When holding: 3W	When switched on: 26W, When holding: 3W

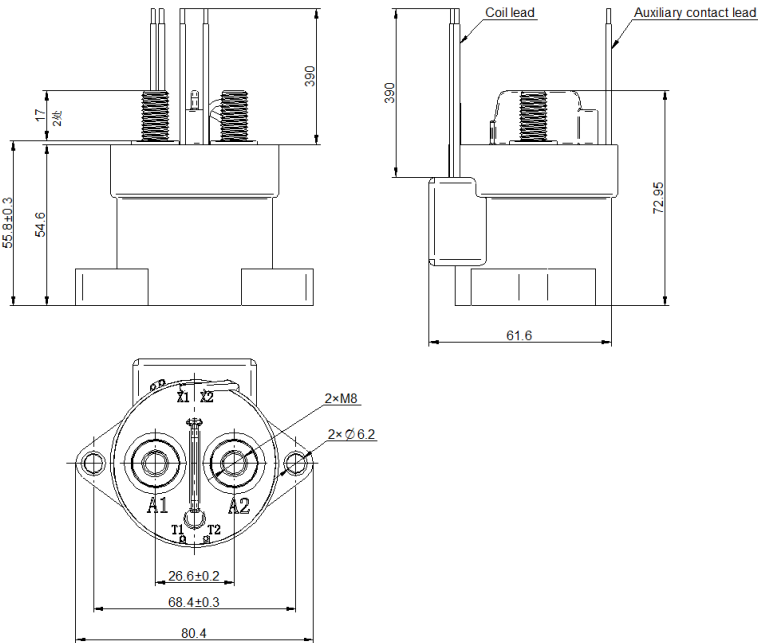
4 Example of order marking

EV I - 250 A / 750 - A C F 5 (XXX)

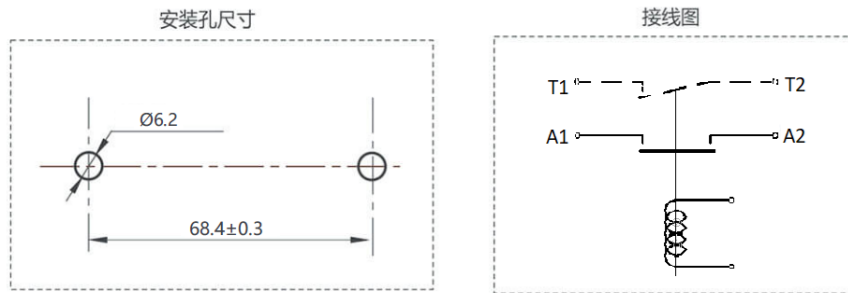
①②③④⑤⑥⑦⑧⑨⑩

- ① Product Model: EV
- ② Product Type: I: Epoxy Sealed Type
- ③ Series Code: 250: 250A
- ④ Contact form: A: 1 Form A
- ⑤ Load Voltage: Blank: 450VDC、750: 750VDC
- ⑥ Nominal coil voltage: A: (12~24)VDC
- ⑦ Coil Lead-out Mode: Blank: Non e – Stripped Wires、C: Connector
- ⑧ With Auxiliary Contact Or Not: Blank: Without、F: With Normally Open Auxiliary Contacts
- ⑨ Form Of Load Outlet: 4: Internal Thread、5: External Thread
- ⑩ Characteristics Code: Subject To Customer Requirements

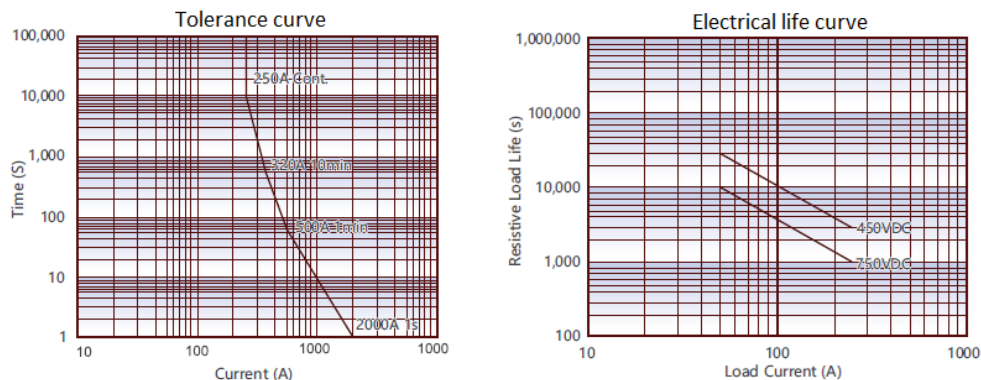
5 Outline drawing



6 Mounting hole/Wiring diagram



7 Performance graph



Remark: 1) The above data is measured under the conditions of ambient temperature 85°C and the sectional area of conductor wire $\geq 75\text{mm}^2$. The data is for reference only, do not use it to select fuse directly.
2) Rated electrical life number is based on resistive load. Test underswitch on/off. Switch on for 0.6s and off for 5.4s.

8 Precautions for use

- ※ When installing the product, the Torque of the fastening bolt should be kept within the specified range, exceeding the maximum value may cause the product to break.
- ※ Please connect according to the schematic diagram. When the wiring is wrong, it may cause accidental misoperation and abnormal heating. Please pay attention to it.
- ※ Avoid installing products in areas directly affected by rain, or in areas with a strong magnetic field, or near objects with heat radiation.
- ※ If the relay coil and contact of the relay continuously at rated voltage (or current), the power is switched on immediately after it was cut off, at this time because the coil temperature increases, the resistance of the coil increases, which makes the product pull-in voltage increase, then it may lead to exceed the rated pull-in voltage.
- ※ If applied to inductive load (I load) at the same time $L/R > 1\text{ ms}$, it is recommended that the inductive load be connected in parallel with a surge current protection device, otherwise, it may cause the product electrical life shortened, the main contact broken bad.
- ※ The drive circuit power of the product coil must be greater than the coil power of the product, otherwise the on-off ability of the product will be reduced.
- ※ Please to avoid sticking grease and other foreign bodies on the leading-out piece, and use the connection wire of 75mm^2 or above, otherwise abnormal heating may be caused at the leading-out end.

⚠ Statement:

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POSTAL CODE: 200063

EVI-300**High voltage DC Relay****1 Product Features**

- ◆Special Epoxy seal, No arc leakage, protection class IP68
- ◆Compact structure, low noise
- ◆The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆300A 85℃ long time current carrying capacity
- ◆The insulation resistance reaches 1000MΩ (1000VDC) and meets the requirements of IEC60664-1

**2 Performance Data**

Parameter		Units	Value
Contact Form		/	1 Form A
Contact Rated Load		A	300
Mechanical Durability		Ops	3×10^5
Max. Switching Voltage		VDC	750
Max. Breaking Current		/	2000A(320V DC) 1 times
Current Tolerance ¹⁾		/	450A: 10min; 600A: 1min; 2000A: 1s
Contact Resistance		mΩ	$\leq 1@20A$
Operating Time (at rated voltage)		ms	30Max.
Release Time (at rated voltage)		ms	10Max.
Insulation Resistance		MΩ	1000 (1000VDC)
Dielectric Withstand Voltage	Between Open Contacts	/	3000VAC 50 Hz/60 Hz
	Between Contacts and Coil	/	3000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	300A 450VDC (DC-1)	Ops	1.5×10^3
	300A 750VDC (DC-1)	Ops	0.7×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Auxiliary Contact (On demand)	Form	/	NO
	Rated Load	/	2A/30VDC、3A/125VAC
	Min. Operating Voltage Current	/	0.1A/8V
Operating Temp		℃	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	395
Outline Dimensions		/	Reference outline drawing

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Remark: 1) please refer to the attached figure "tolerance curve". 2) The on-off ratio is 0.6s: 5.4s. Please note that if the coil parallel diode is used, the release time of the relay will be greatly prolonged and the service life will be reduced.

3 Coil Parameters

Nominal Voltage(Us)	12V DC	24V DC
Operating Voltage Range	±20%Us	±20%Us
Pickup Voltage	9Vmax	9Vmax
Dropout Voltage	(4~7)V	(4~7)V
Coil Power	When switched on: 26W, When holding: 3W	When switched on: 26W, When holding: 3W

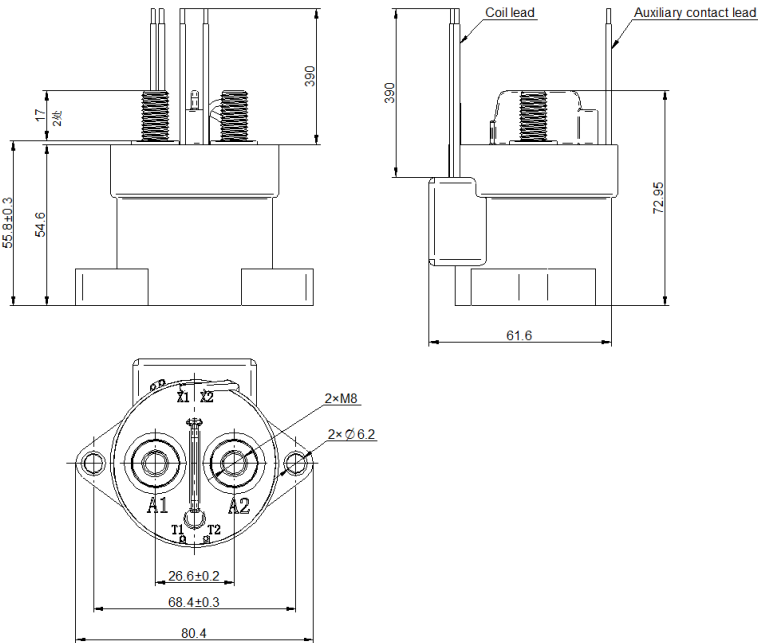
4 Example of order marking

EV I - 300 A / 750 - A C F 5 (XXX)

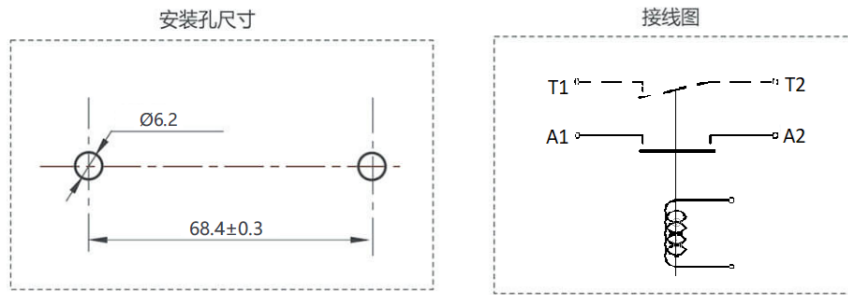
①②③④⑤⑥⑦⑧⑨⑩

- ① Product Model: EV
- ② Product Type: I: Epoxy Sealed Type
- ③ Series Code: 300: 300A
- ④ Contact form: A: 1 Form A
- ⑤ Load Voltage: Blank: 450VDC、750: 750VDC
- ⑥ Nominal coil voltage: A: (12~24)VDC
- ⑦ Coil Lead-out Mode: Blank: Non e – Stripped Wires、C: Connector
- ⑧ With Auxiliary Contact Or Not: Blank: Without、F: With Normally Open Auxiliary Contacts
- ⑨ Form Of Load Outlet: 4: Internal Thread、5: External Thread
- ⑩ Characteristics Code: Subject To Customer Requirements

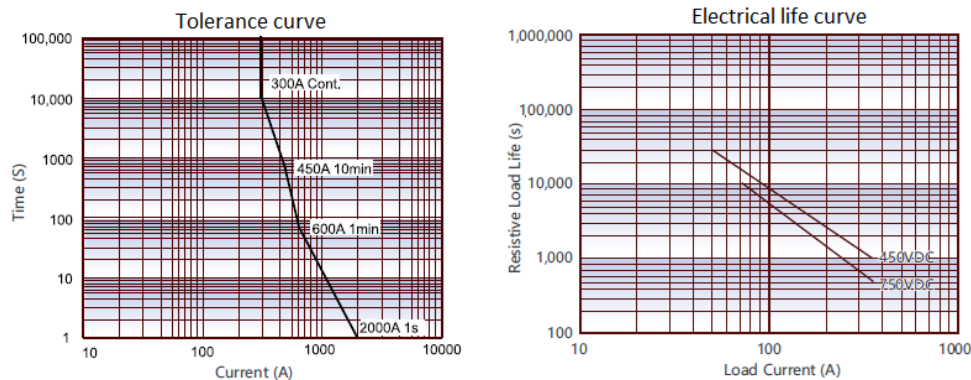
5 Outline drawing



6 Mounting hole/Wiring diagram



7 Performance graph



Remark: 1) The above data is measured under the conditions of ambient temperature 85°C and the sectional area of conductor wire $\geq 100\text{mm}^2$. The data is for reference only, do not use it to select fuse directly.
2) Rated electrical life number is based on resistive load. Test underswitch on/off. Switch on for 0.6s and off for 5.4s.

8 Precautions for use

- ※ When installing the product, the Torque of the fastening bolt should be kept within the specified range, exceeding the maximum value may cause the product to break.
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- ※ The drive circuit power of the product coil must be greater than the coil power of the product, otherwise the on-off ability of the product will be reduced.
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