

EVM-40

High voltage DC Relay

1 Product Features

- ◆Ceramic Brazing seal, No arc leakage, Make sure no fire and burst
- ◆Compact structure, low noise
- ◆The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆40A 85°C 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	40
Mechanical Durability		Ops	3×10^5
Max. Switching Voltage		VDC	1000
Max. Breaking Current		/	400A(320V DC) 1 times
Current Tolerance ¹⁾		/	80A: 20min; 160A: 30s; 400A: 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	/	4000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	40A 450VDC (DC-1)	Ops	2×10^4
	40A 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		°C	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	150
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.

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	3.3W	3.3W	3.3W

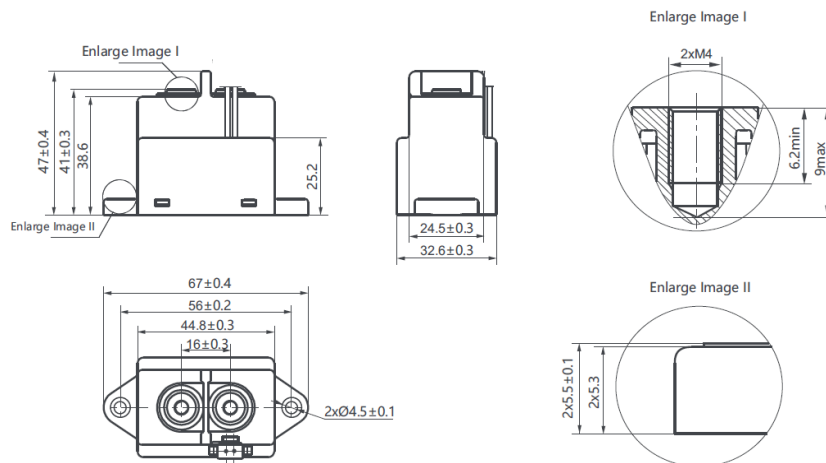
4 Example of order marking

EV M - 40 A / 750 - 12 C F 5 (XXX)

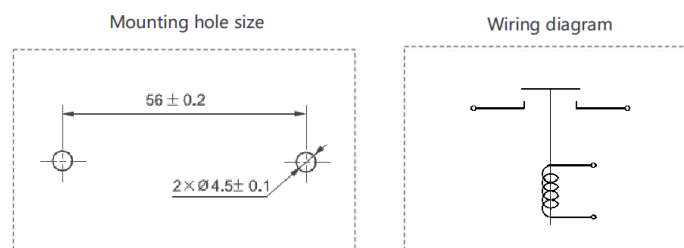
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Product Model: EV
- ② Product Type: M: Ceramic Sealed Type
- ③ Contact form: A: 1 Form A
- ④ Series Code: 40: 40A
- 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

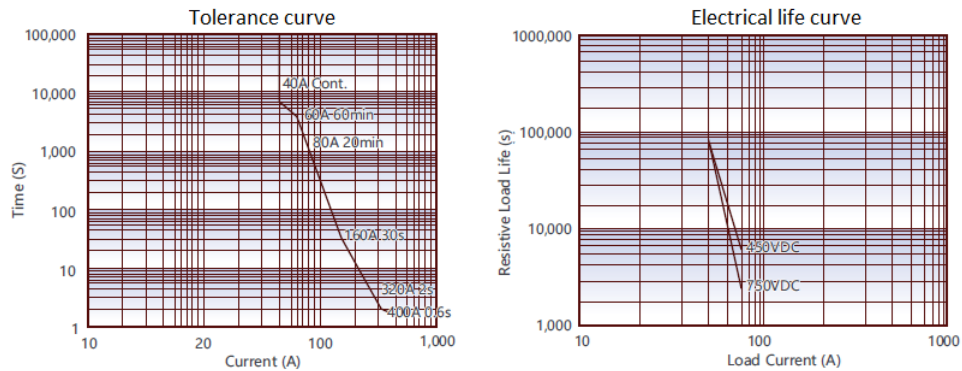
5 Outline drawing



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 $\geq 10\text{mm}^2$. 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 (L 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 Mirelay 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 Shanghai MiRelay Electronics Co.,Ltd. for more technical support.

EVI-100

High voltage DC Relay

1 Product Features

- ◆Ceramic Brazing seal, No arc leakage, Make sure no fire and burst
- ◆Compact structure, low noise
- ◆The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆100A 85°C 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: 10min; 600A: 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	/	4000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	100A 450VDC (DC-1)	Ops	1×10^4
	100A 750VDC (DC-1)	Ops	6×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Operating Temp		°C	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	350
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.

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	4.5W	4.5W	4.5W

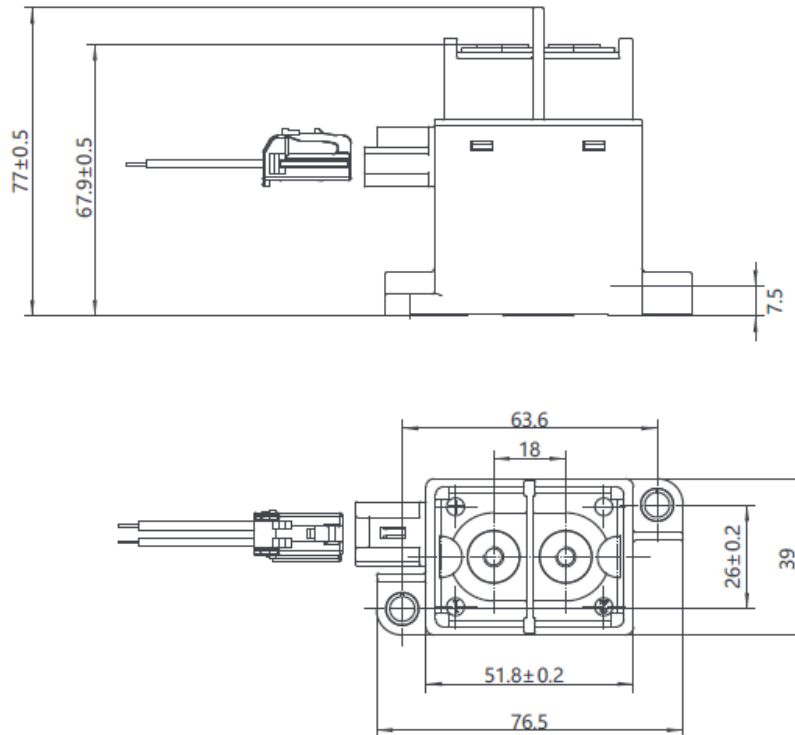
4 Example of order marking

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

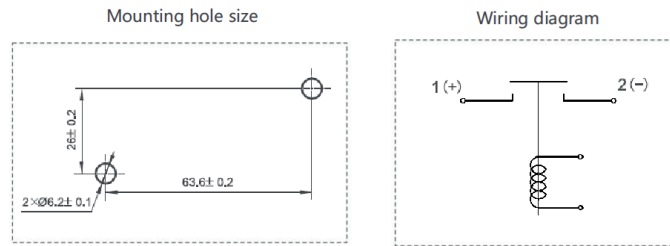
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Product Model: EV
- ② Product Type: M: Ceramic Sealed Type
- ③ Contact form: A: 1 Form A
- ④ Series Code: 100: 100A
- 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

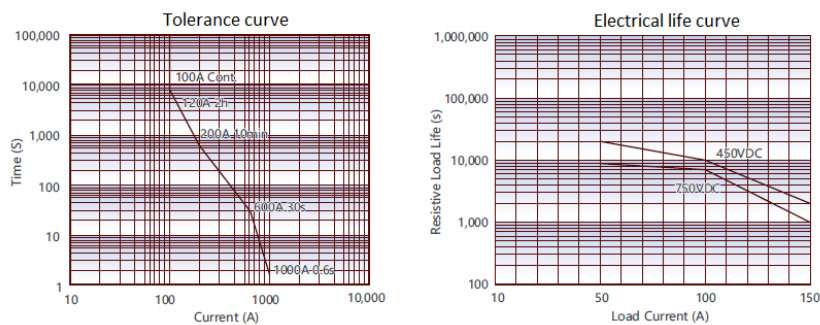
5 Outline drawing



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 $\geq 40\text{mm}^2$. 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 (L load) at the same time $L/R > 1$ 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 40mm^2 or above, otherwise abnormal heating may be caused at the leading-out end.

⚠Statement:

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EVI-200

High voltage DC Relay

1 Product Features

- ◆ Special Epoxy seal, No arc leakage, Make sure no fire and burst
- ◆ Compact structure, low noise
- ◆ The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆ 200A 85°C 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	1000
Max. Breaking Current		/	2000A(320V DC) 1 times
Current Tolerance ¹⁾		/	300A: 60min; 800A: 30s; 2000A: 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	/	4000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	200A 450VDC (DC-1)	Ops	3×10^3
	200A 750VDC (DC-1)	Ops	1×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Operating Temp		°C	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	500
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

3 Coil Parameters

Nominal Voltage(Us)	12V DC	24V DC
Operating Voltage Range	±20%Us	±20%Us
Pickup Voltage	9Vmax	18Vmax
Dropout Voltage	(1~5)V	(2~9)V
Coil Power	When switched on: 34W, When holding: 4W	When switched on: 34W, When holding: 4W

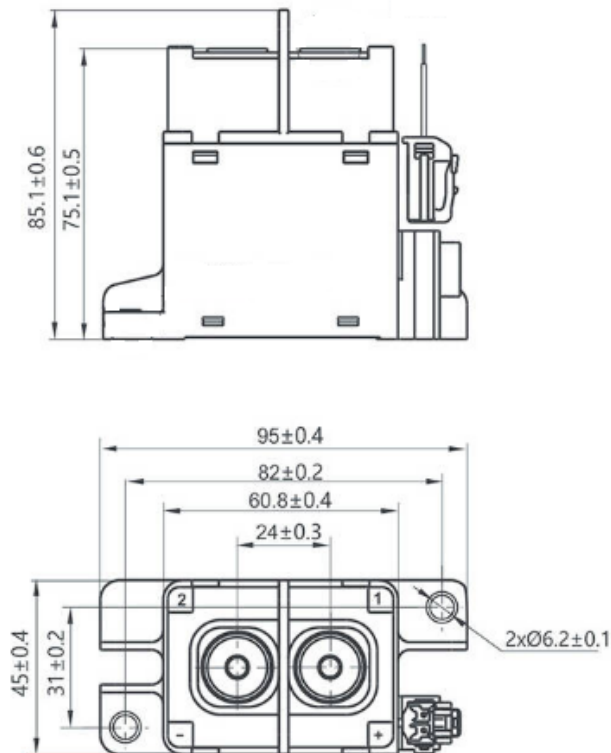
4 Example of order marking

EV M - 200 A / 750 - 12 C F 5 (XXX)

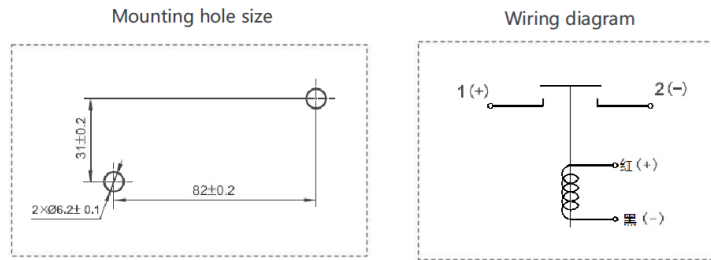
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Product Model: EV
- ② Product Type: M: Ceramic Sealed Type
- ③ Contact form: A: 1 Form A
- ④ Series Code: 200: 200A
- 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

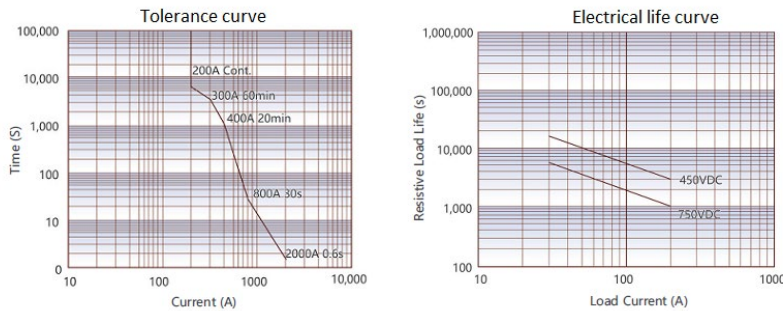
5 Outline drawing



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 $\geq 60\text{mm}^2$. 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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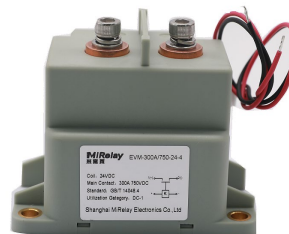
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EVI-300

High voltage DC Relay

1 Product Features

- ◆ Special Epoxy seal, No arc leakage, Make sure no fire and burst
- ◆ Compact structure, low noise
- ◆ The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆ 300A 85°C 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	1000
Max. Breaking Current		/	2500A(320V DC) 1 times
Current Tolerance ¹⁾		/	450A: 60min; 1200A: 30s; 3000A: 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	/	4000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	300A 450VDC (DC-1)	Ops	3×10^3
	300A 750VDC (DC-1)	Ops	1×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration		/	10Hz~500Hz 49 m/s ²
Operating Temp		°C	-40~+85
Fumidity		/	5%~85%RH
Form Of Load Outlet		/	Internal Thread/External Thread
Weight		g	700
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.

3 Coil Parameters

Nominal Voltage(Us)	12V DC	24V DC
Operating Voltage Range	±20%Us	±20%Us
Pickup Voltage	9Vmax	18Vmax
Dropout Voltage	(2~5)V	(3~9)V
Coil Power	When switched on:45W, When holding:3.8W	When switched on: 45W, When holding: 3.8W

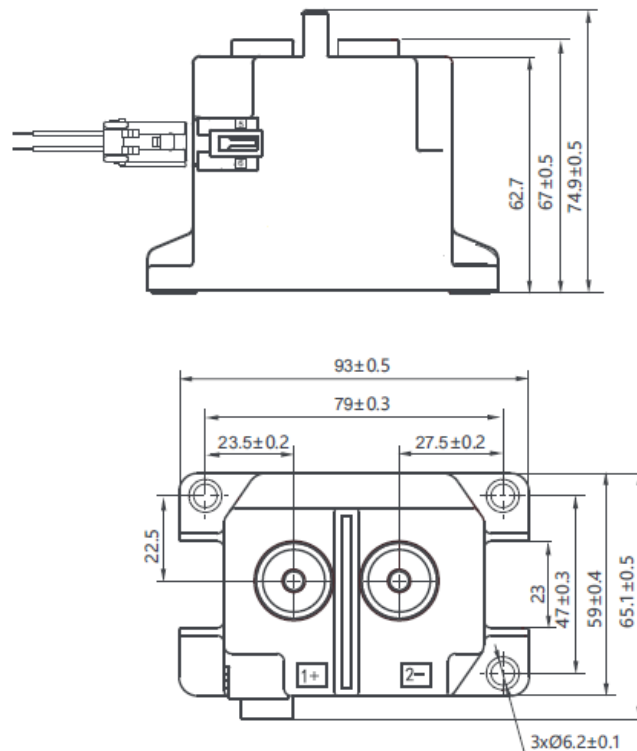
4 Example of order marking

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

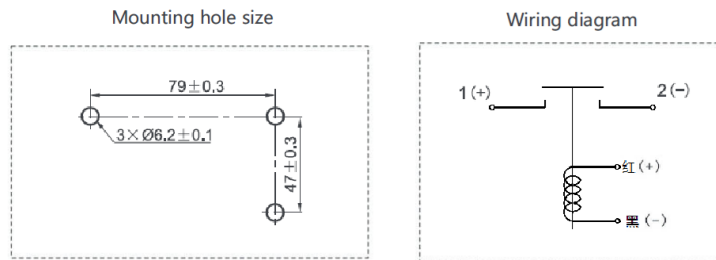
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Product Model: EV
- ② Product Type: M: Ceramic Sealed Type
- ③ Contact form: A: 1 Form A
- ④ Series Code: 300: 300A
- 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

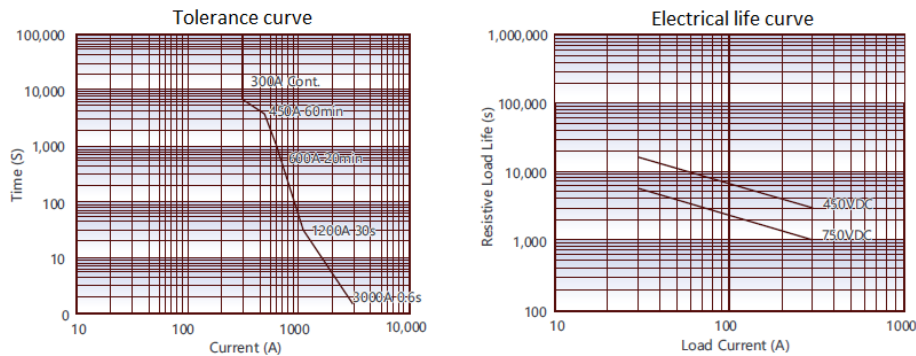
5 Outline drawing



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 $\geq 100\text{mm}^2$. 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.
- ※ 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 100mm^2 or above, otherwise abnormal heating may be caused at the leading-out end.

⚠Statement:

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EVI-400

High voltage DC Relay

1 Product Features

- ◆ Special Epoxy seal, No arc leakage, Make sure no fire or burst
- ◆ Compact structure, low noise
- ◆ The mixed gas mainly filled with hydrogen can prevent the contact from oxidation and burning
- ◆ 400A 85°C 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	400	
Mechanical Durability	Ops	3×10^5	
Max. Switching Voltage	VDC	1000	
Max. Breaking Current	/	2500A(320V DC) 1 times	
Current Tolerance ¹⁾	/	600A: 20min; 1200A: 30s; 3000A: 0.6s	
Contact Resistance	mΩ	≤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	/	4000VAC 50 Hz/60 Hz
Electrical Endurance ²⁾	400A 450VDC (DC-1)	Ops	2×10^3
	400A 750VDC (DC-1)	Ops	1×10^3
Impact	Stability	/	196m/s ²
	Strength	/	490 m/s ²
Vibration	/	10Hz~500Hz 49 m/s ²	
Operating Temp	°C	-40~+85	
Fumidity	/	5%~85%RH	
Form Of Load Outlet	/	Internal Thread/External Thread	
Weight	g	700	
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.

3 Coil Parameters

Nominal Voltage(Us)	12V DC	24V DC
Operating Voltage Range	±20%Us	±20%Us
Pickup Voltage	9Vmax	18Vmax
Dropout Voltage	(2~5)V	(3~9)V
Coil Power	When switched on:45W, When holding:3.8W	When switched on: 45W, When holding: 3.8W

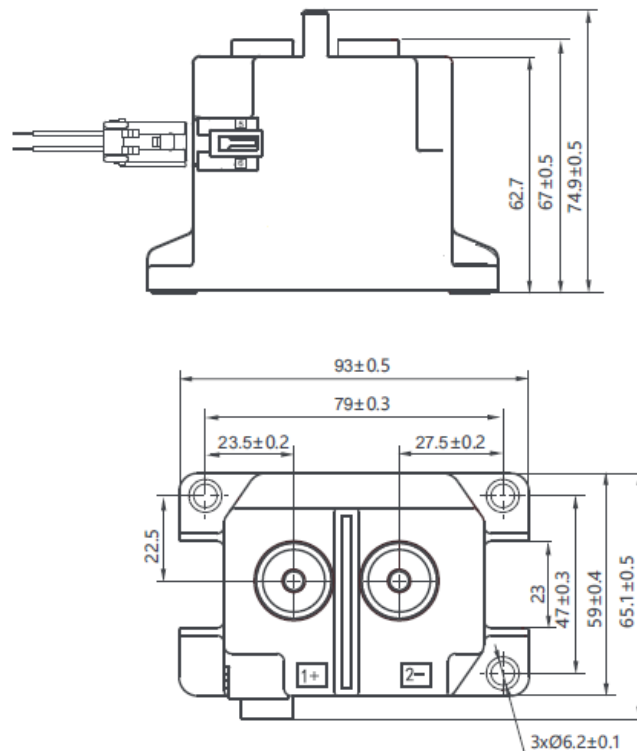
4 Example of order marking

EV M - 400 A / 750 - A C F 5 (XXX)

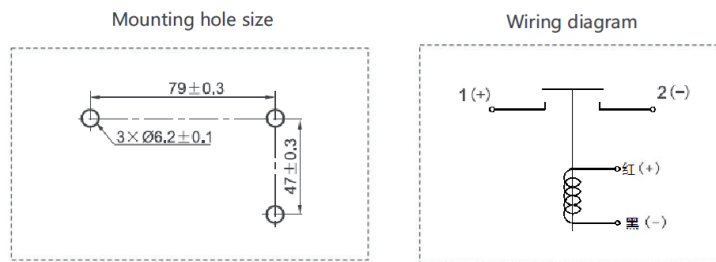
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Product Model: EV
- ② Product Type: M: Ceramic Sealed Type
- ③ Contact form: A: 1 Form A
- ④ Series Code: 400: 400A
- 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

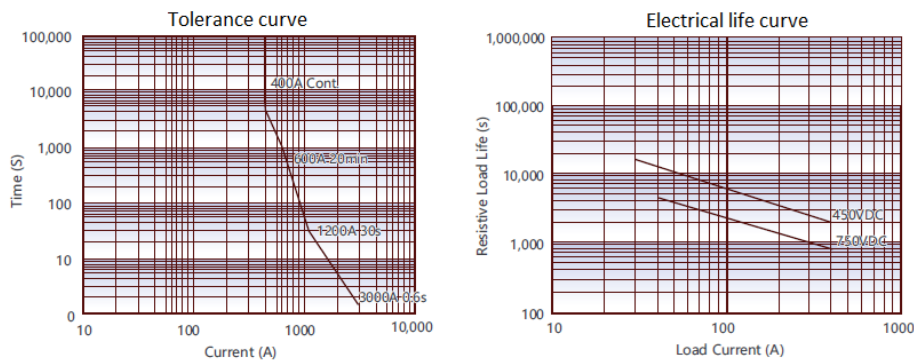
5 Outline drawing



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 $\geq 120\text{mm}^2$. 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 (L load) at the same time $L/R > 1$ 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 120mm^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 Mirelay 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 Shanghai MiRelay Electronics Co.,Ltd. for more technical support.