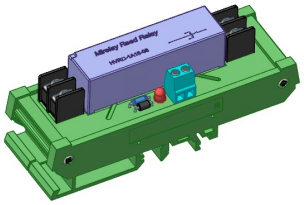
HRM(1A) Series

High voltage Reed Relay Module

1 Feature

- ◆ 1 Channel high voltage relay module
- ◆ Dielectric strength up to 15 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-1A10	HRM□-1A15
Contact Rating		W	10	
Max.Swiching Voltage (Max DC/Peak AC)		V	7000	10000
Max.Swiching Current (Max DC/Peak AC)		A	3.5	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	150	
Dielectric Strength (static)	Between contact	VDC	10000	15000
	Contact to coil	VDC	15000	
Insulation Resistance		Ω	10^{12}	
Operate Time		ms	3.0	
Release Time		ms	1.5	
Vibration(0～2000Hz)		G	20	
Shock(11ms，1/2 sine)		G	50	
Operating Temp		℃	-20～+70	
Storage Temp		℃	-35～+105	
Life Expectancy		Ops	5×10^{7}(at 500VDC-100mA)	
Outline Dimensions		/	Reference outline drawing	

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HRM□-1A□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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4 Example of order marking

HRM □ – □ □ (XXX)
① ② ③ ④ ⑤

① Product model：HRM

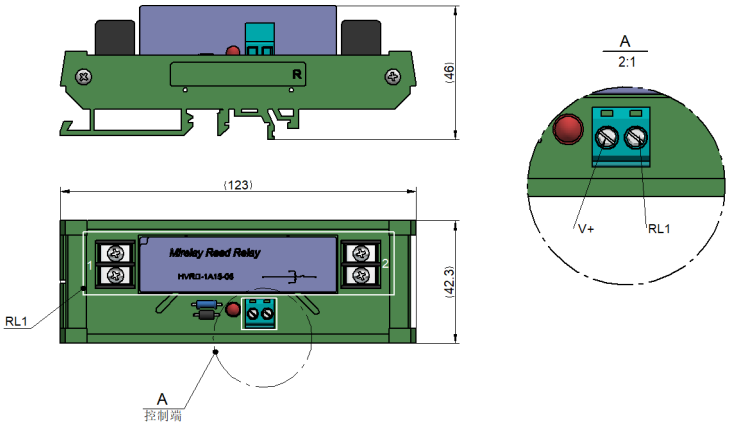
② Nominal coil voltage：05: 5VDC、12: 12VDC、24: 24VDC

③ Contact form：1A：1 Form A

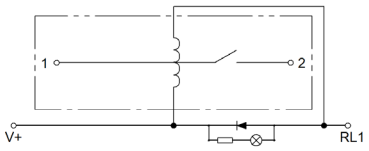
④ Breakdown voltage：10：10KV、15：15KV

⑤ Special code：Customer special requirement

5 Outline drawing



6 Wiring diagram



7 Precautions for use

※ Avoid installing relays where rain falls, or where there is a strong magnetic field, or near an object with thermal radiation.

※ Switching inductive or capacitive load systems will produce peak voltage or current, it is recommended to use protective circuit, otherwise, may cause relay damage.

※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.

※ Mechanical impact strength is too large, will cause the relay to use the fault.

※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.

⚠Statement：

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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.

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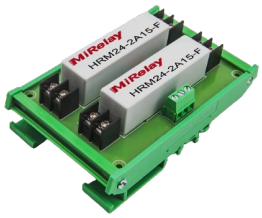
HRM(2A) Series

High voltage Reed Relay Module

1 Feature

- ◆ 2 Channel high voltage relay module
- ◆ Dielectric strength up to 15 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-2A10	HRM□-2A15
Contact Rating		W	10	
Max.Swiching Voltage (Max DC/Peak AC)		V	7000	10000
Max.Swiching Current (Max DC/Peak AC)		A	3.5	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	150	
Dielectric Strength (static)	Between contact	VDC	10000	15000
	Contact to coil	VDC	15000	
Insulation Resistance		Ω	10^{12}	
Operate Time		ms	3.0	
Release Time		ms	1.5	
Vibration(0～2000Hz)		G	20	
Shock(11ms，1/2 sine)		G	50	
Operating Temp		℃	-20～+70	
Storage Temp		℃	-35～+105	
Life Expectancy		Ops	5×10^{7}(at 500VDC-100mA)	
Outline Dimensions		/	Reference outline drawing	

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HRM□-2A□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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4 Example of order marking

HRM □ – □ □ (XXX)
① ② ③ ④ ⑤

① Product model：HRM

② Nominal coil voltage：05: 5VDC、12: 12VDC、24: 24VDC

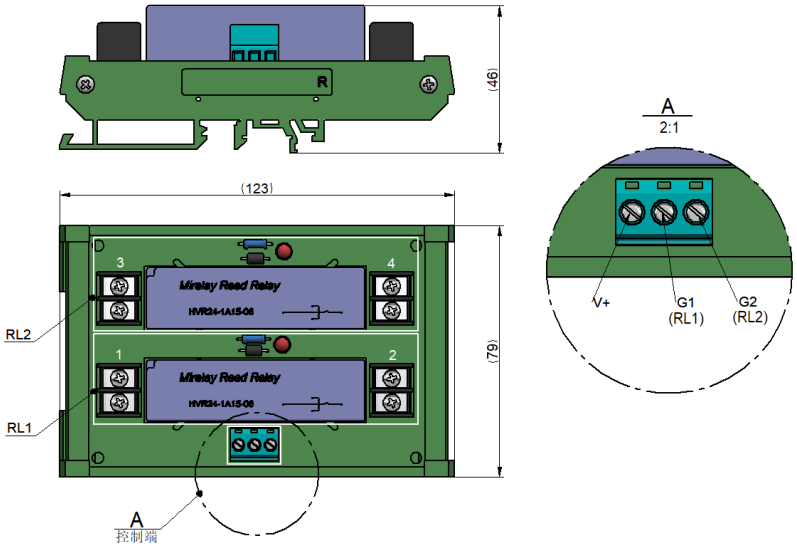
③ Contact form：2A：2 Form A

④ Breakdown voltage：10：10KV、15：15KV

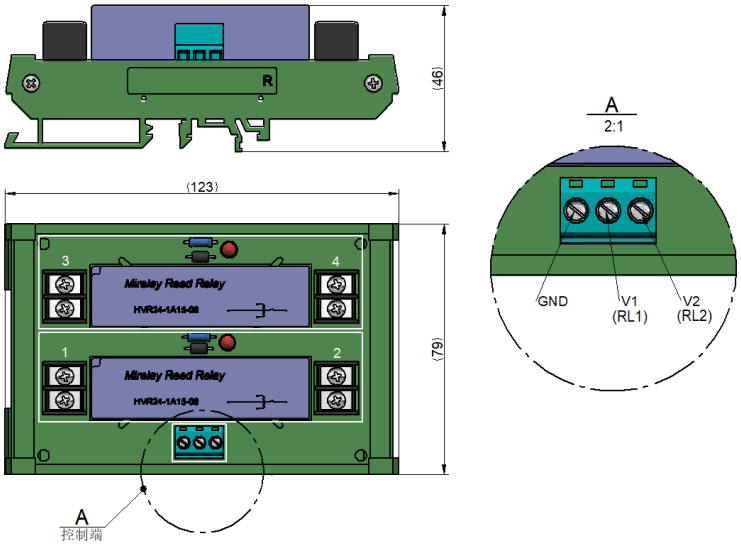
⑤ Special code：Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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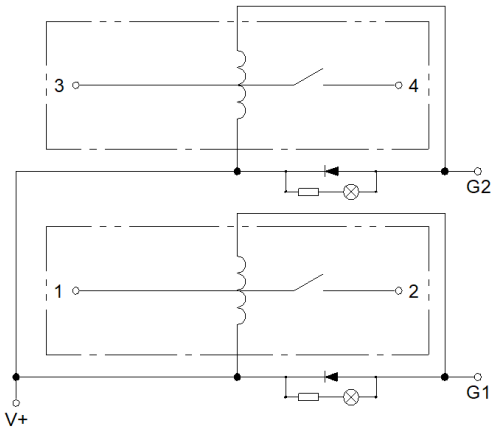
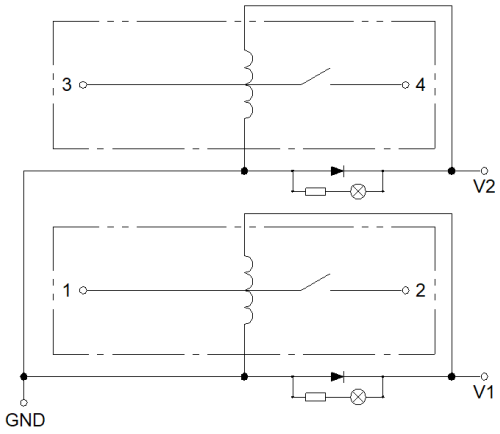
6 Wiring diagram

1) V+



2) V- (GND)



7 Precautions for use

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※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.

※ Mechanical impact strength is too large, will cause the relay to use the fault.

※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.

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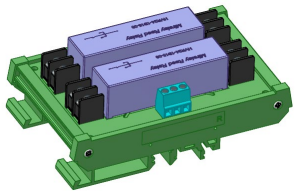
HRM(2B) Series

High voltage Reed Relay Module

1 Feature

- ◆ 2 Channel high voltage relay module
- ◆ Dielectric strength up to 15 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-2B10	HRM□-2B15
Contact Rating		W	10	
Max.Swiching Voltage (Max DC/Peak AC)		V	7000	10000
Max.Swiching Current (Max DC/Peak AC)		A	3.5	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	150	
Dielectric Strength (static)	Between contact	VDC	10000	15000
	Contact to coil	VDC	15000	
Insulation Resistance		Ω	10^{12}	
Operate Time		ms	3.0	
Release Time		ms	1.5	
Vibration(0～2000Hz)		G	20	
Shock(11ms，1/2 sine)		G	50	
Operating Temp		℃	-20～+70	
Storage Temp		℃	-35～+105	
Life Expectancy		Ops	5×10^{7}(at 500VDC-100mA)	
Outline Dimensions		/	Reference outline drawing	

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HRM□-2B□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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4 Example of order marking

HRM □ – □ □ (XXX)
① ② ③ ④ ⑤

① Product model：HRM

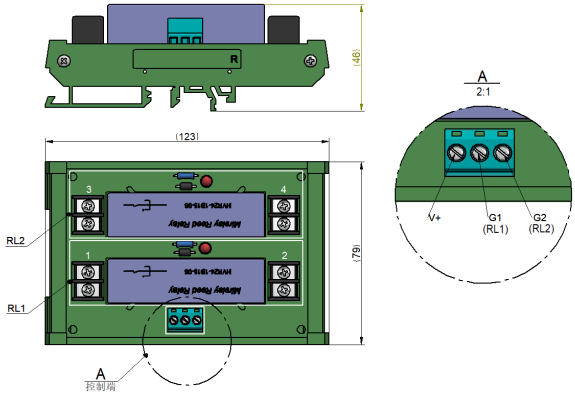
② Nominal coil voltage：05: 5VDC、12: 12VDC、24: 24VDC

③ Contact form：2B：2 Form B

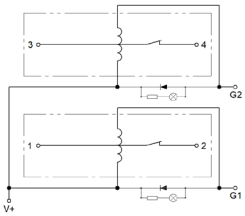
④ Breakdown voltage：10：10KV、15：15KV

⑤ Special code：Customer special requirement

5 Outline drawing



6 Wiring diagram



7 Precautions for use

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※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.

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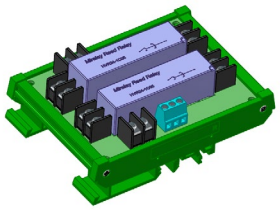
HRM(2C) Series

High voltage Reed Relay Module

1 Feature

- ◆ 2 Channel high voltage relay module
- ◆ Dielectric strength up to 5 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-2C01	HRM□-2C05
Contact Rating		W	10	
Max.Swiching Voltage (Max DC/Peak AC)		V	240	2500
Max.Swiching Current (Max DC/Peak AC)		A	4.0	3.0
Max.Carry Current		A	4.0	3.2
Contact Resistance		mΩ	200	150
Dielectric Strength (static)	Between contact	VDC	1000	5000
	Contact to coil	VDC	10000	
Insulation Resistance		Ω	10^9	10^{10}
Operate Time		ms	4.5	4.5
Release Time		ms	4.0	3.7
Vibration(0～2000Hz)		G	20	
Shock(11ms，1/2 sine)		G	50	
Operating Temp		℃	-20～+70	
Storage Temp		℃	-35～+105	
Life Expectancy		Ops	5×10^7(at 500VDC-100mA)	
Outline Dimensions		/	Reference outline drawing	

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HRM□-2C□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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4 Example of order marking

HRM □ – □ □ (XXX)
① ② ③ ④ ⑤

① Product model：HRM

② Nominal coil voltage：05: 5VDC、12: 12VDC、24: 24VDC

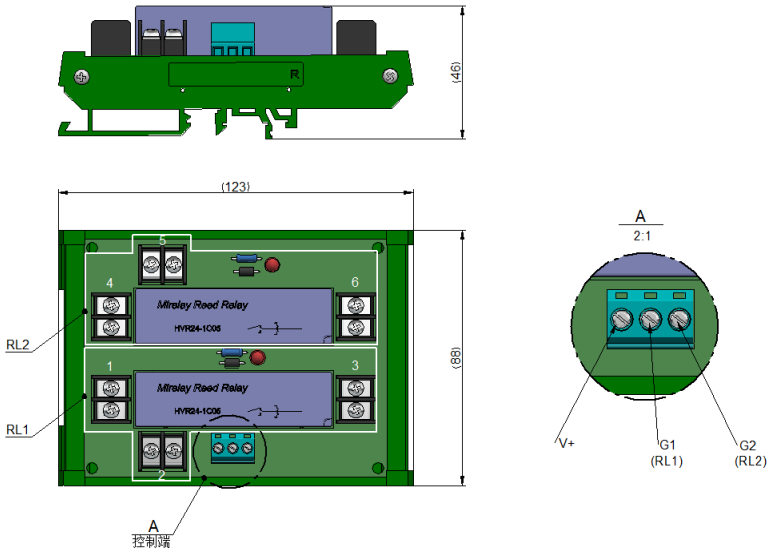
③ Contact form：2C：2 Form C

④ Breakdown voltage：01：1KV、05：5KV

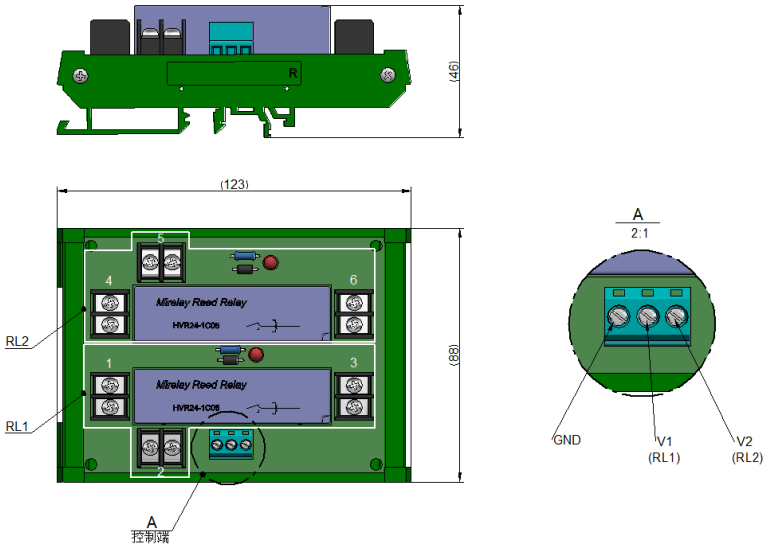
⑤ Special code：Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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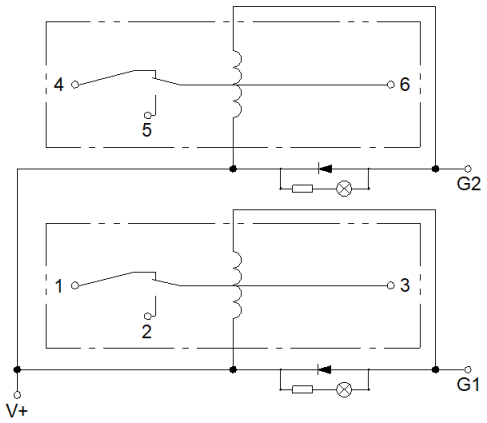
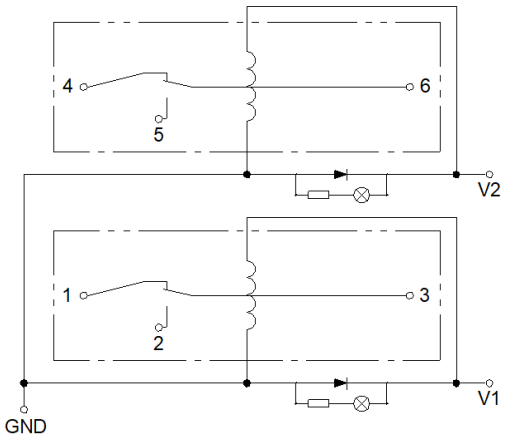
6 Wiring diagram

1) V+



2) V- (GND)



7 Precautions for use

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※ Mechanical impact strength is too large, will cause the relay to use the fault.

※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.

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HRM(6A06) Series

High voltage Reed Relay Module

1 Feature

- ◆ 6 Channel high voltage relay module
- ◆ Dielectric strength up to 6 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive

2 Performance Data

Paramenter		Units	Value
Relay Model		/	HRM□-6A06
Contact Rating		W	100
Max.Swiching Voltage (Max DC/Peak AC)		V	1000
Max.Swiching Current (Max DC/Peak AC)		A	1.0
Max.Carry Current		A	2.5
Contact Resistance		mΩ	300
Dielectric Strength (static)	Between contact	VDC	6000
	Contact to coil	VDC	6000
Insulation Resistance		Ω	10^{11}
Operate Time		ms	1.0
Release Time		ms	0.1
Vibration(0～2000Hz)		G	20
Shock(11ms，1/2 sine)		G	50
Operating Temp		℃	-20～+70
Storage Temp		℃	-35～+105
Life Expectancy		Ops	5×10^{7}(at 500VDC-10mA)
Outline Dimensions		/	Reference outline drawing

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HRM□-6A06	5	4	0.5	7	120
	12	9	1	16	250
	24	18	2	29	1600

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POSTAL CODE:200063

4 Example of order marking

HRM □ – □ □ (XXX)
① ② ③ ④ ⑤

① Product model：HRM

② Nominal coil voltage：05: 5VDC、12: 12VDC、24: 24VDC

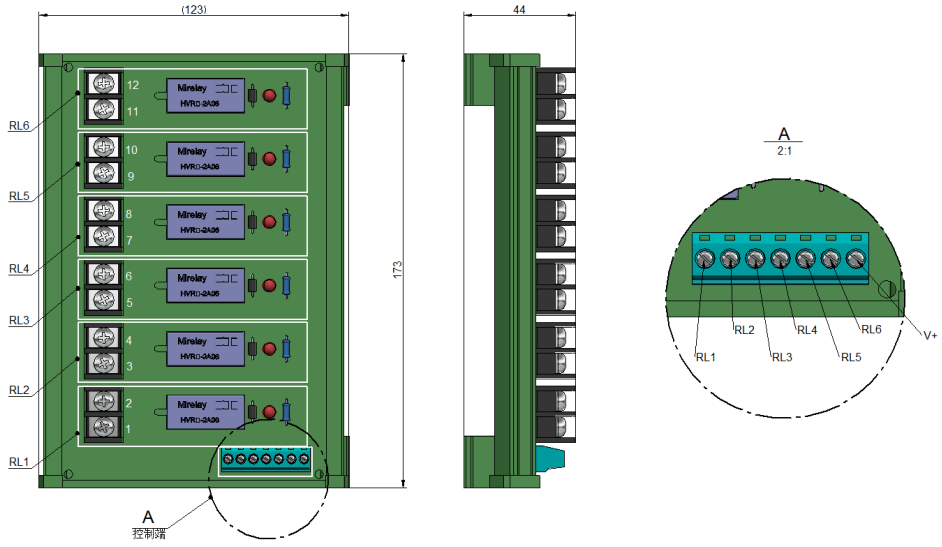
③ Contact form：6A：6 Form A

④ Breakdown voltage：06：6KV

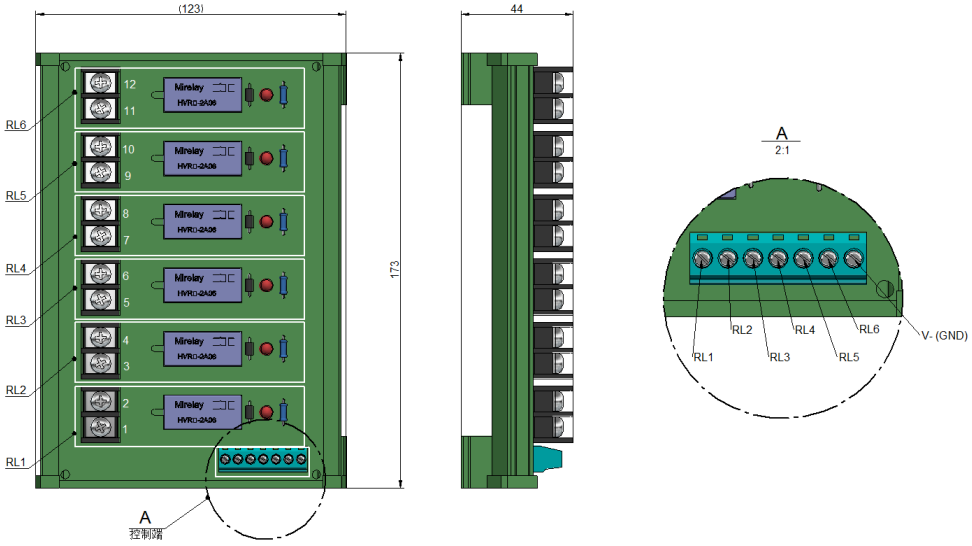
⑤ Special code：Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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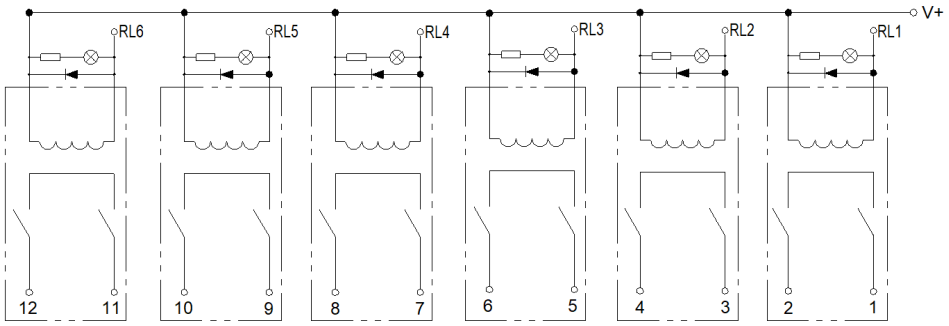
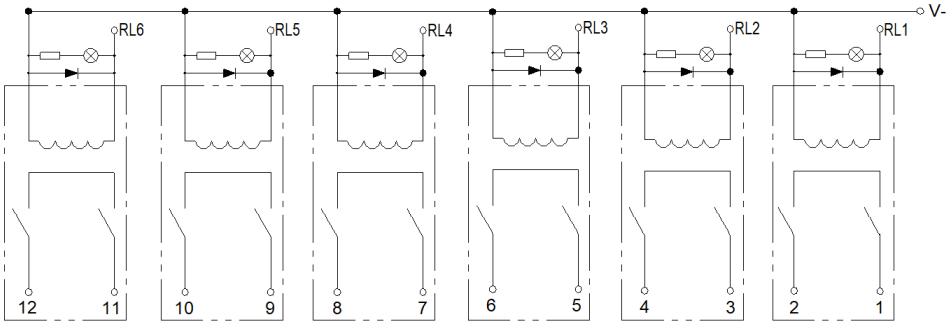
6 Wiring diagram

1) V+



2) V- (GND)



7 Precautions for use

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※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.

※ Mechanical impact strength is too large, will cause the relay to use the fault.

※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.

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HRM(6A07) Series

High voltage Reed Relay Module

1 Feature

- ◆ 6 Channel high voltage relay module
- ◆ Dielectric strength up to 7 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive

2 Performance Data

Paramenter		Units	Value
Relay Model		/	HRM□-6A07
Contact Rating		W	100
Max.Swiching Voltage (Max DC/Peak AC)		V	1000
Max.Swiching Current (Max DC/Peak AC)		A	1.0
Max.Carry Current		A	2.5
Contact Resistance		mΩ	300
Dielectric Strength (static)	Between contact	VDC	7000
	Contact to coil	VDC	7000
Insulation Resistance		Ω	10^{11}
Operate Time		ms	1.0
Release Time		ms	0.1
Vibration(0～2000Hz)		G	20
Shock(11ms，1/2 sine)		G	50
Operating Temp		℃	-20～+70
Storage Temp		℃	-35～+105
Life Expectancy		Ops	5×10^{7}(at 500VDC-10mA)
Outline Dimensions		/	Reference outline drawing

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HRM□-6A07	5	4	0.5	7	70
	12	9	1	16	400
	24	18	2	29	1100

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POSTAL CODE:200063

4 Example of order marking

HRM □ – □ □ (XXX)
① ② ③ ④ ⑤

① Product model：HRM

② Nominal coil voltage：05: 5VDC、12: 12VDC、24: 24VDC

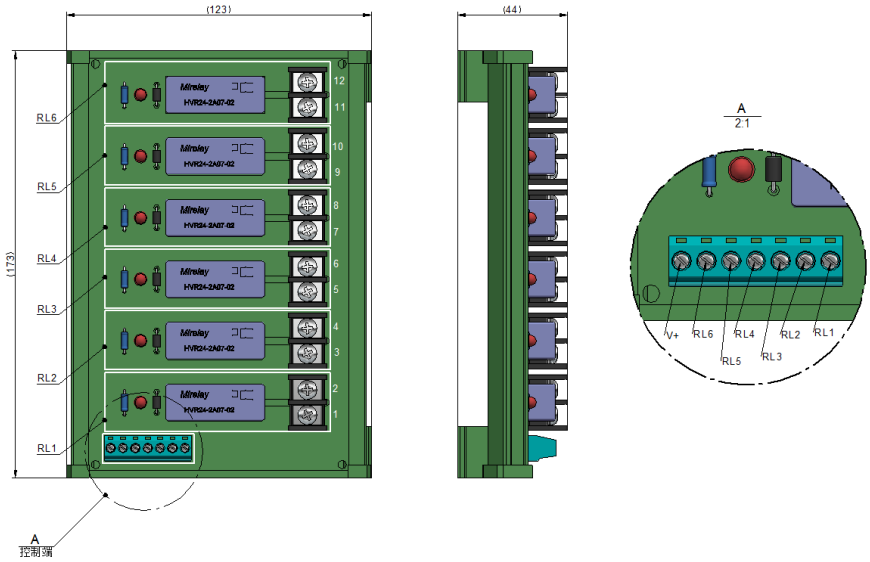
③ Contact form：6A：6 Form A

④ Breakdown voltage：07：7KV

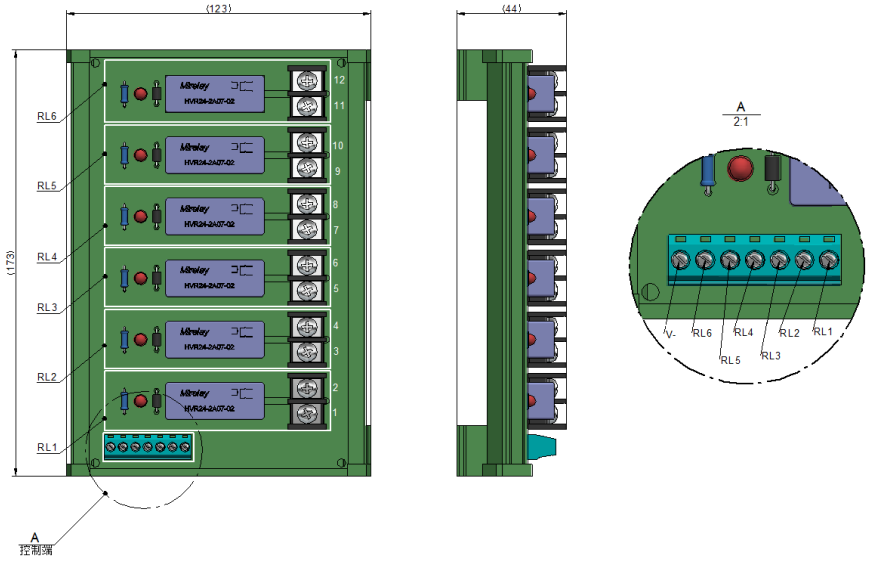
⑤ Special code：Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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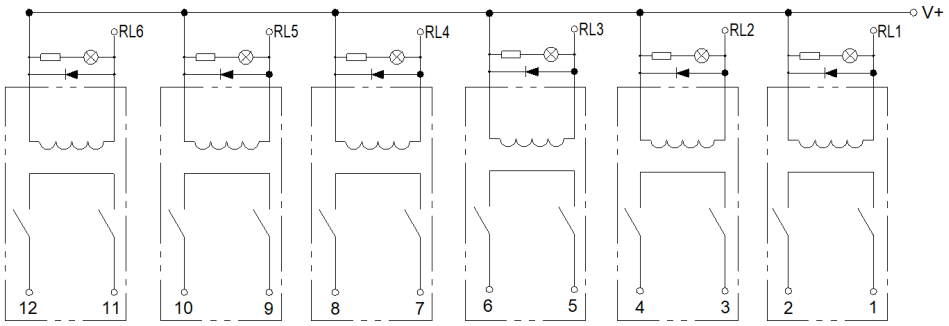
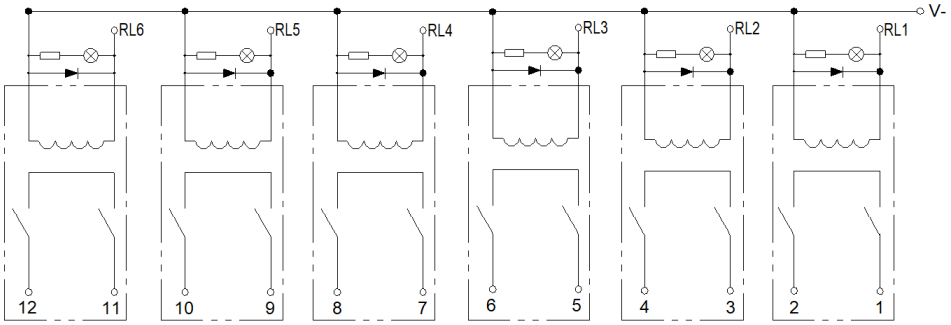
6 Wiring diagram

1) V+



2) V- (GND)



7 Precautions for use

※ Avoid installing relays where rain falls, or where there is a strong magnetic field, or near an object with thermal radiation.

※ Switching inductive or capacitive load systems will produce peak voltage or current, it is recommended to use protective circuit, otherwise, may cause relay damage.

※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.

※ Mechanical impact strength is too large, will cause the relay to use the fault.

※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.

⚠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.

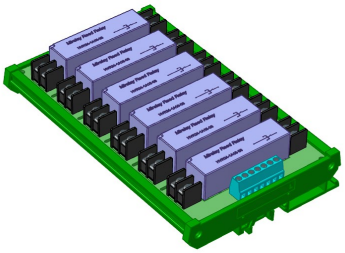
Relay performance parameters in different application areas are different, so customers should choose the appropriate products according to the specific conditions of use, if in doubt, please contact Shanghai MiRelay Electronics Co.,Ltd. for more technical support.

HRM(6A10/15) Series

High voltage Reed Relay Module

1 Feature

- ◆ 6 Channel high voltage relay module
- ◆ Dielectric strength up to 15 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-6A10	HRM□-6A15
Contact Rating		W	10	
Max.Swiching Voltage (Max DC/Peak AC)		V	7000	10000
Max.Swiching Current (Max DC/Peak AC)		A	3.5	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	150	
Dielectric Strength (static)	Between contact	VDC	10000	15000
	Contact to coil	VDC	15000	
Insulation Resistance		Ω	10^{12}	
Operate Time		ms	3.0	
Release Time		ms	1.5	
Vibration(0～2000Hz)		G	20	
Shock(11ms，1/2 sine)		G	50	
Operating Temp		℃	-20～+70	
Storage Temp		℃	-35～+105	
Life Expectancy		Ops	5×10^{7}(at 500VDC-100mA)	
Outline Dimensions		/	Reference outline drawing	

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HRM□-6A□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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POSTAL CODE:200063

4 Example of order marking

HRM □ – □ □ (XXX)
① ② ③ ④ ⑤

① Product model：HRM

② Nominal coil voltage：05: 5VDC、12: 12VDC、24: 24VDC

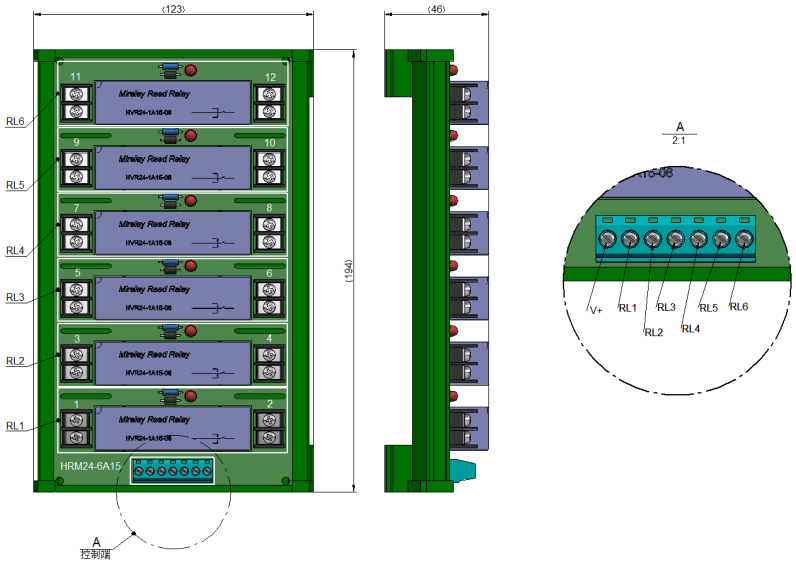
③ Contact form：6A：6 Form A

④ Breakdown voltage：10：10KV、15：15KV

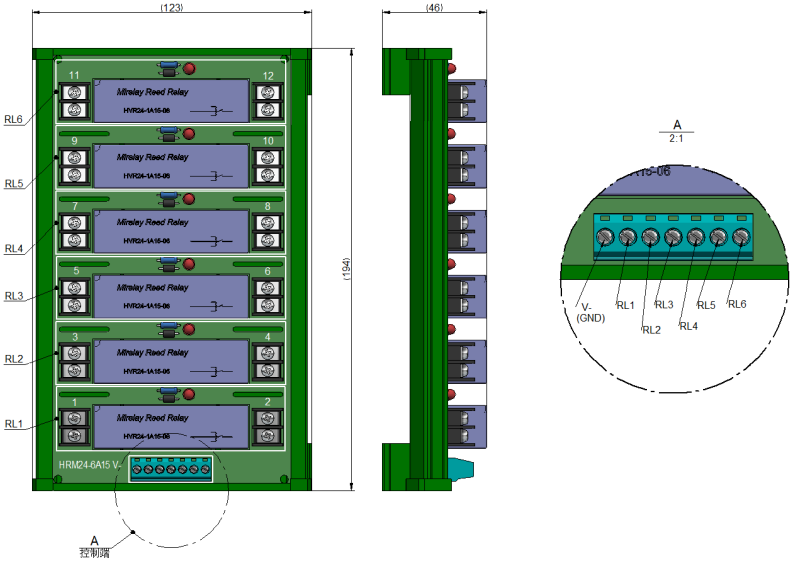
⑤ Special code：Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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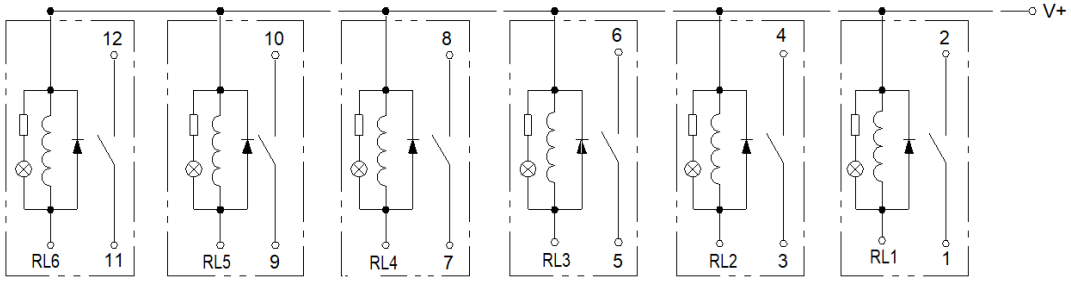
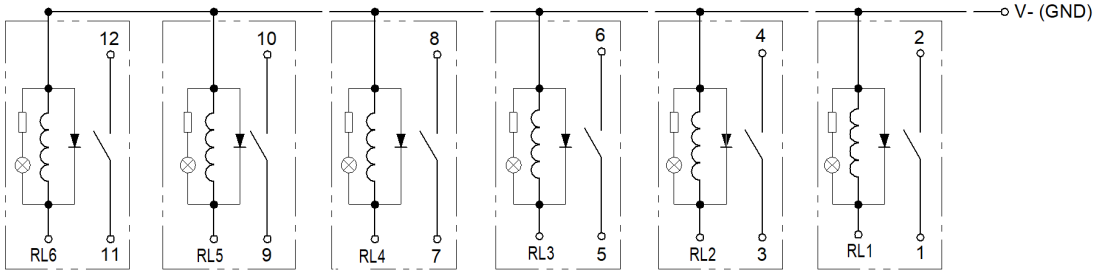
6 Wiring diagram

1) V+



2) V- (GND)



7 Precautions for use

※ Avoid installing relays where rain falls, or where there is a strong magnetic field, or near an object with thermal radiation.

※ Switching inductive or capacitive load systems will produce peak voltage or current, it is recommended to use protective circuit, otherwise, may cause relay damage.

※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.

※ Mechanical impact strength is too large, will cause the relay to use the fault.

※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.

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HRM(12A04) Series

High voltage Reed Relay Module

1 Feature

- ◆ 12 Channel high voltage relay module
- ◆ Dielectric strength up to 4 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive

2 Performance Data

Paramenter		Units	Value
Relay Model		/	HRM□-12A04
Contact Rating		W	100
Max.Swiching Voltage (Max DC/Peak AC)		V	1000
Max.Swiching Current (Max DC/Peak AC)		A	1.0
Max.Carry Current		A	2.5
Contact Resistance		mΩ	150
Dielectric Strength (static)	Between contact	VDC	4000
	Contact to coil	VDC	4000
Insulation Resistance		Ω	10^{11}
Operate Time		ms	1.0
Release Time		ms	0.1
Vibration(0～2000Hz)		G	20
Shock(11ms，1/2 sine)		G	50
Operating Temp		℃	-20～+70
Storage Temp		℃	-35～+105
Life Expectancy		Ops	5×10^{7}(at 500VDC-10mA)
Outline Dimensions		/	Reference outline drawing

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
HRM□-12A04	5	4	0.5	7	70
	12	9	1	16	400
	24	18	2	29	1100

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4 Example of order marking

HRM □ – □ □ (XXX)
① ② ③ ④ ⑤

① Product model：HRM

② Nominal coil voltage：05: 5VDC、12: 12VDC、24: 24VDC

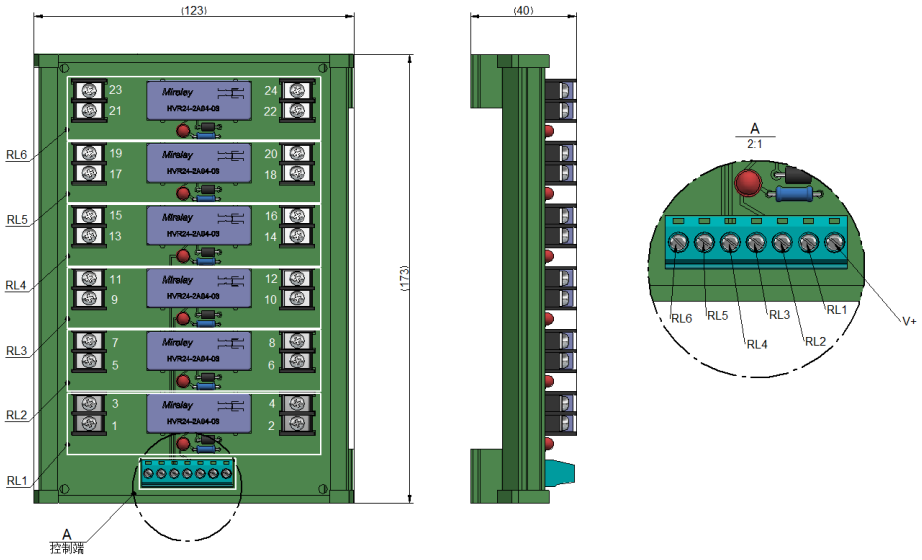
③ Contact form：12A：12 Form A

④ Breakdown voltage：04：4KV

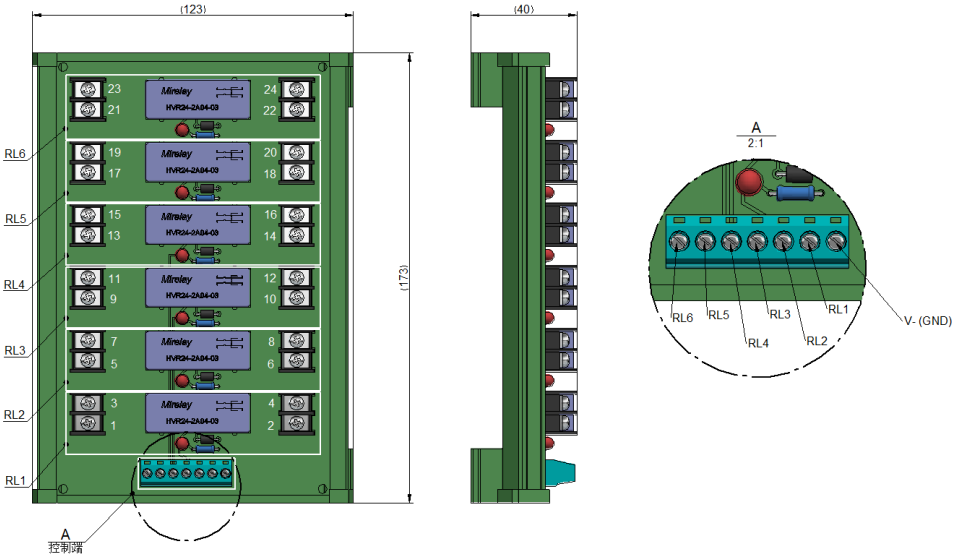
⑤ Special code：Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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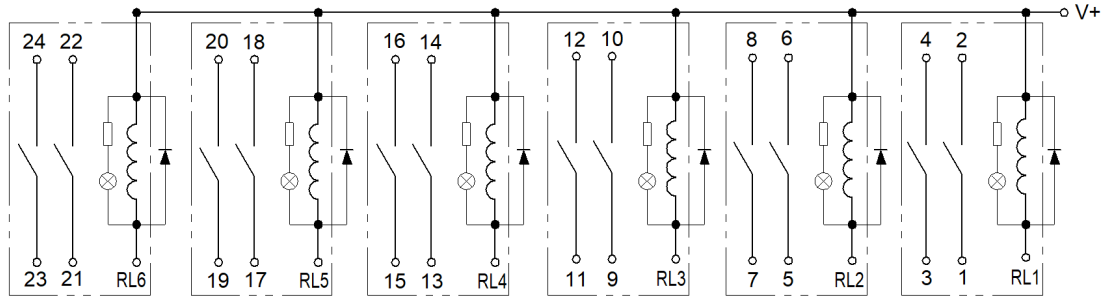
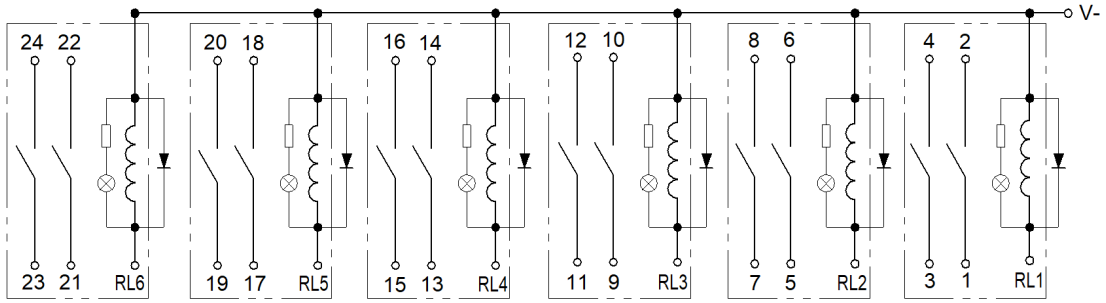
6 Wiring diagram

1) V+



2) V- (GND)



7 Precautions for use

※ Avoid installing relays where rain falls, or where there is a strong magnetic field, or near an object with thermal radiation.

※ Switching inductive or capacitive load systems will produce peak voltage or current, it is recommended to use protective circuit, otherwise, may cause relay damage.

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※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.

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HRM(12A10/15)系列 高压干簧继电器模块

High voltage Reed Relay Module

1 产品特性

- 12 通道高压继电器模块
- 介电强度高达 15KV
- DIN 导轨安装
- LED 指示灯
- 专业电路保护
- 定制化设计、符合 ROHS 指令

2 性能参数

项目		单位	值	
继电器模块型号		/	HRM□-12A10	HRM□-12A15
触点容量		W	50	
最大切换电压(Max DC/Peak AC)		V	7000	10000
最大切换电流(Max DC/Peak AC)		A	3.0	
最大负载电流		A	5.0	
接触电阻		mΩ	150	
介质耐压	断开触点间	V	10000	15000
	触点与线圈间	V	15000	
绝缘电阻		Ω	10^{11}	
吸合时间		ms	3.5	
释放时间		ms	2.0	
振动(0～2000Hz)		G	20	
冲击(11ms，1/2 正弦波)		G	50	
工作温度		℃	-20～+70	
储存温度		℃	-35～+105	
预期寿命		Ops	5×10^7(at 500VDC-100mA)	
外形尺寸		/	见各外形尺寸图	

3 线圈参数

型 号	额定电压 (VDC)	动作电压 (VDC)	释放电压 (VDC)	最大电压 (VDC)	线圈电阻 (±10%Ω at 20℃)
HRM□-12A□	12	9	1	15	150
	24	18	2	29	450

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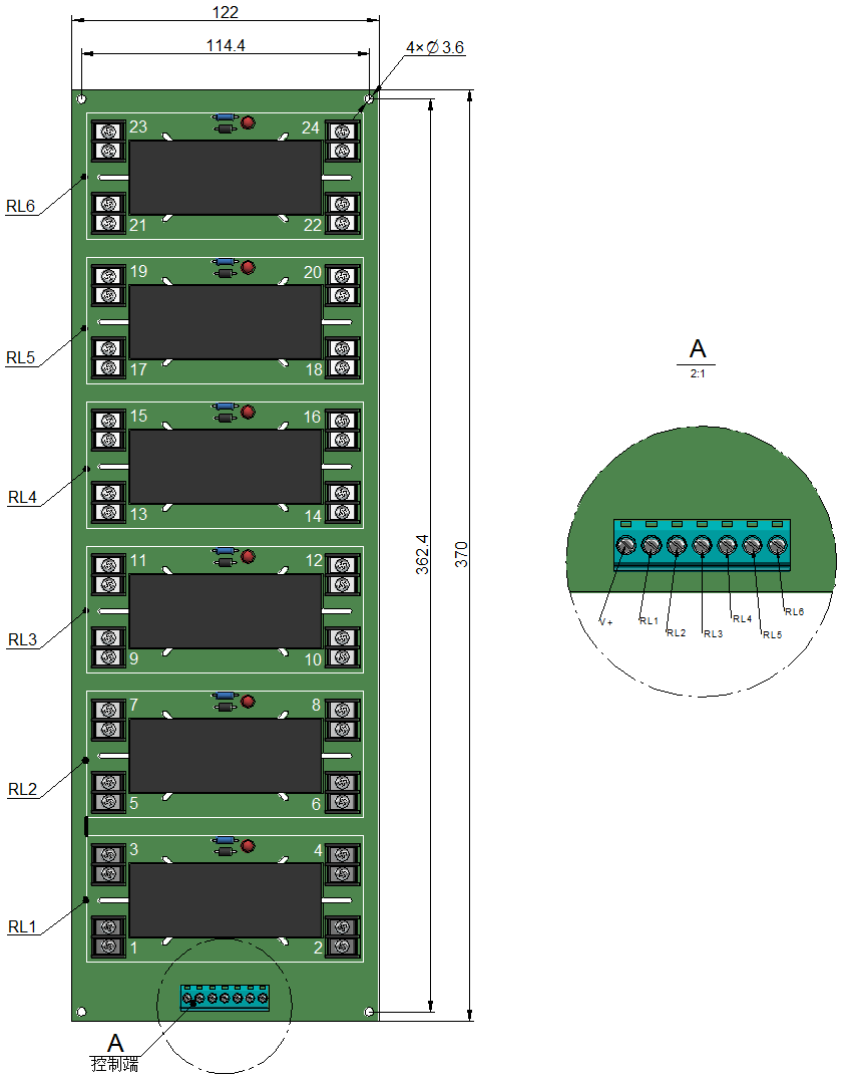
4 型号标记示例

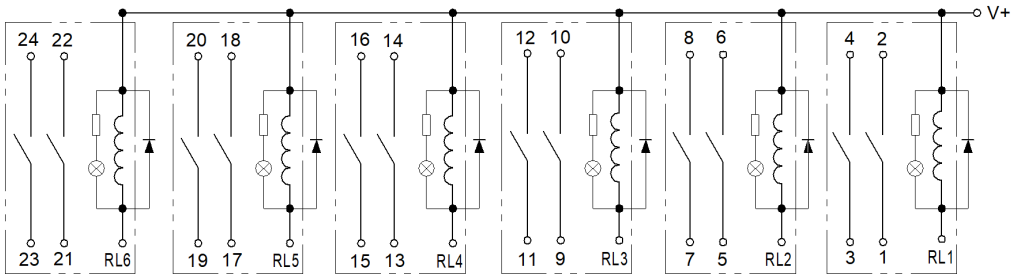
HRM □ - □ □ - (XXX)
① ② ③ ④ ⑤

① 产品型号：HRM
② 线圈电压：12：12VDC、24: 24VDC
③ 触点形式：12A：十二组常开
④ 耐压：10：10KV、15：15KV
⑤ 特殊特性号：以客户需求为准

5 外形尺寸图



6 接线图



7 使用注意事项

※ 避免把继电器安装在直接被雨水淋到的地方，或强磁场的地方，或靠近有热辐射的物体。

※ 切换感性负载或容性负载系统会产生峰值电压或电流，建议使用保护电路，否则，可能会造成继电器损坏。

※ 避免使用中过高的堆积密度，这可能会影响继电器的电气特性。

※ 机械冲击强度过大，会引起继电器使用的故障。

※ 焊接最高温度为 260℃，时间不超过 5s。

⚠声明：

本资料仅供客户参考，规格参数可能因产品改良等发生变更，具体涉及的每个产品以《产品承诺书》和样品为准，恕不另行通知。

继电器在不同应用领域的性能参数要求均有所不同，因而客户应根据具体的使用条件选择合适的产品，若有疑问，请与上海米高莱电子有限公司联系以便获得更多的技术支持。

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POSTAL CODE:200063

HRM(20A)系列 高压干簧继电器模块

High voltage Reed Relay Module

1 产品特性

- 20 通道高压继电器模块
- 介电强度高达 4KV
- DIN 导轨安装
- LED 指示灯
- 专业电路保护
- 定制化设计、符合 ROHS 指令

2 性能参数

项目		单位	值
继电器模块型号		/	HRM□-20A04
触点容量		W	100
最大切换电压(Max DC/Peak AC)		V	1000
最大切换电流(Max DC/Peak AC)		A	1.0
最大负载电流		A	2.5
接触电阻		mΩ	150
介质耐压	断开触点间	V	4000
	触点与线圈间	V	4000
绝缘电阻		Ω	10^{11}
吸合时间		ms	1.0
释放时间		ms	0.1
振动(0～2000Hz)		G	20
冲击(11ms，1/2 正弦波)		G	50
工作温度		℃	-20～+70
储存温度		℃	-35～+105
预期寿命		Ops	5×10^{7}(at 500VDC-100mA)
外形尺寸		/	见各外形尺寸图

3 线圈参数

型 号	额定电压 (VDC)	动作电压 (VDC)	释放电压 (VDC)	最大电压 (VDC)	线圈电阻 (±10%Ω at 20℃)
HRM□-20A04	5	4	0.5	7	100
	12	9	1	16	620
	24	18	2	29	1400

地址：上海市普陀区中山北路 3000 号长城大厦 1007
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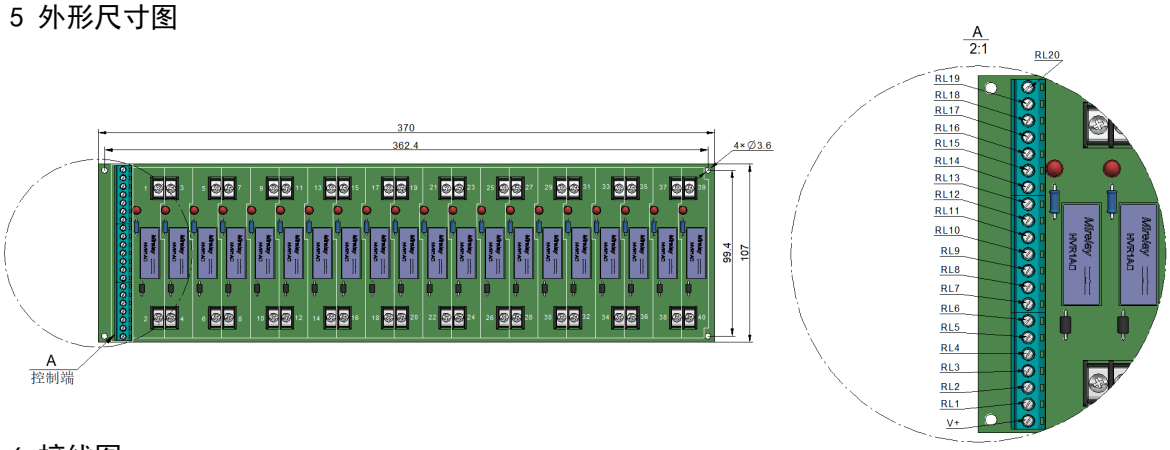
POSTAL CODE:200063

4 型号标记示例

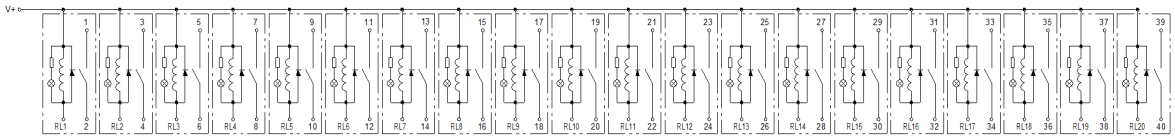
HRM □ - □ □ - (XXX)
① ② ③ ④ ⑤

① 产品型号：HRM
② 线圈电压：05：5VDC、12：12VDC、24: 24VDC
③ 触点形式：20A：二十组常开
④ 耐压：04：4000V
⑤ 特殊特性号：以客户需求为准

5 外形尺寸图



6 接线图



7 使用注意事项

※ 避免把继电器安装在直接被雨水淋到的地方，或强磁场的地方，或靠近有热辐射的物体。
※ 切换感性负载或容性负载系统会产生峰值电压或电流，建议使用保护电路，否则，可能会造成继电器损坏。
※ 避免使用中过高的堆积密度，这可能会影响继电器的电气特性。
※ 机械冲击强度过大，会引起继电器使用的故障。
※ 焊接最高温度为 260℃，时间不超过 5s。

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本资料仅供客户参考，规格参数可能因产品改良等发生变更，具体涉及的每个产品以《产品承诺书》和样品为准，恕不另行通知。

继电器在不同应用领域的性能参数要求均有所不同，因而客户应根据具体的使用条件选择合适的产品，若有疑问，请与上海米高莱电子有限公司联系以便获得更多的技术支持。

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