



Relay

Reliable and safe relay solutions
Exquisite industrial control technology

Intermediate relay/solid state relay

Superb and reliable family products

Build the overall solution of control devices
Provide technical customization services



>>> Catalogue

| | |
|--|-----|
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RG22/RG23 Series Medium power relay

| RG22 | - | 2 | D | 024 | L | N |
|------------------------------------|-------|--------------------------------|---------------------------------------|-------------|--|---|
| General RG22 With Test Bar RG23 | Poles | Coil Operation D-DC A-AC | Coil Voltage 024: 24V 220: 220V | L: With LED | None: General D: Built-in Diode C: Built-in RC Circuit | |



Feature

- New products with test bar
- Contact material: Ag; 2 poles(7A), 4 poles(5A)
- Easy identify the AC or DC coil according to the indicator color
- Mechanical indicator as a standard feature. Easy to indicate the operation status.
- 12-110VDC, 12-220VAC wide range control voltage
- Compliance to RoHS
- Using Push-In socket RL-□S. Save about 60% wiring manhour.

| Model No. | AC | RG22-2A012L | RG22-2A024L | RG22-2A048L | RG22-2A110L | RG22-2A220L |
|-----------|----|-------------|-------------|-------------|-------------|-------------|
| | | RG22-4A012L | RG22-4A024L | RG22-4A048L | RG22-4A110L | RG22-4A220L |
| | DC | RG22-2D012L | RG22-2D024L | RG22-2D048L | RG22-2D110L | - |
| | | RG22-4D012L | RG22-4D024L | RG22-4D048L | RG22-4D110L | |
| | AC | RG23-2A012L | RG23-2A024L | RG23-2A048L | RG23-2A110L | RG23-2A220L |
| | | RG23-2A012L | RG23-2A024L | RG23-2A048L | RG23-2A110L | RG23-2A220L |
| | DC | RG23-2D012L | RG23-2D024L | RG23-2D048L | RG23-2D110L | - |
| | | RG23-4D012L | RG23-4D024L | RG23-4D048L | RG23-4D110L | |

Specification

| Coil ⁽¹⁾ | | Rated Current(mA) | | Coil Resistance (Ω) | Coil Inductance(H) | | Operation Voltage ⁽²⁾ | Release Voltage ⁽³⁾ | Max. Voltage | Power Dissipation (VA, W) |
|---------------------|---------|-------------------|-----------|---------------------|--------------------|-------|--|--|--------------|---------------------------|
| Nominal Voltage | | 50Hz | 60Hz | | OFF | ON | | | | |
| AC | 12 | 106.5 | 91 | 46 | 0.17 | 0.33 | AC: ≤80%, DC: ≤80% (Rated Voltage) | AC: ≥30%, DC: ≥10% (Rated Voltage) | 100% | About 0.9~1.1 60Hz |
| | 24 | 53.8 | 46 | 180 | 0.69 | 1.3 | | | | |
| | 48 | 25.7 | 21.1 | 788 | 3.22 | 5.66 | | | | |
| | 100/110 | 11.7/12.9 | 10.0/11.0 | 3750 | 14.54 | 24.6 | | | | |
| | 110/120 | 9.9/10.8 | 8.4/9.2 | 4430 | 19.2 | 32.1 | | | | |
| | 200/220 | 6.2/6.8 | 5.3/5.8 | 12950 | 54.75 | 94.07 | | | | |
| DC | 220/240 | 5.2/6.2 | 4.3/5.0 | 15920 | 83.5 | 136.4 | | | | |
| | 6 | 151 | | 39.8 | 0.17 | 0.33 | | | | |
| | 12 | 75 | | 636 | 0.73 | 1.37 | | | | |
| | 24 | 37.7 | | 636 | 3.2 | 5.72 | | | | |
| | 48 | 18.8 | | 2560 | 10.6 | 21 | | | | |
| | 100/110 | 9.0/9.9 | | 11100 | 45.6 | 86.2 | | | | |

Notes:
1. The value in this table is measured at a coil temperature of 23°C with tolerances of +15%/-20% for the AC rated current and +15% for the DC coil resistance.
2. There is variation between products, but actual values are 80% max. The Relay will operate if 80% or higher of the rated voltage is applied. However, to achieve the specified characteristics, apply the rated voltage to the coil.
3. There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value.

Contacts Data⁽¹⁾

| | 2 poles | | | 4 poles | | |
|--|------------------------|------------------------|--|------------------------|------------------------|--|
| | Resistive Load | | Inductive Load (cosθ=0.4, L/R=7ms) | Resistive Load | | Inductive Load (cosθ=0.4, L/R=7ms) |
| Contact Material | Ag | | | | | |
| Rated Load | 7A 250VAC/ 7A 30VDC | 5A 220VAC/ 5A 24VDC | 2A 220VAC/ 2A 24VDC | 5A 250VAC/ 5A 30VDC | 3A 220VAC/ 3A 24VDC | 0.8A 220VAC/ 1.5A 24VDC |
| Electrical Endurance ⁽²⁾ | 120,000 | 500,000 | | 300,000 | 300,000 | 200,000 |
| Mechanical Endurance ⁽³⁾ | ≥50,000,000 | | | | | |
| Rated Current | 7A | | | 5A | | |
| Max. Contact Voltage | AC250V, DC125V | | | | | |
| Max. Contact Current | 7A | | | 5A | | |
| Max. Switching Capacity | 1750VA 210W | | 440VA 47W | 1250VA 150W | | 176VA 36W |
| Min. Load (references) ⁽⁴⁾ | DC5V 1mA | | | | | |

Notes:
1. The value in the table is based on the ambient temperature of +23°C
2. Rated load operating frequency 2400 operation/h, at +23°C ambient temperature and duty ratio is 33%
3. Rated load operating frequency 1800 operation/h, at +23°C ambient temperature and duty ratio is 33%
4. These values are guides for the switchable limits for minute load levels, such as in electronic circuits. Actual characteristics may be different. These values will depend on the switching frequency, atmosphere, and expected reliability level. Confirm applicability in the actual system under actual application conditions.

Main Unit Data

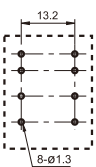
| | | |
|-------------------------------------|--|------------------------------------|
| Contact Resistance ⁽¹⁾ | ≤100mΩ | |
| Operation Time ⁽²⁾ | ≤20ms | |
| Release Time ⁽²⁾ | ≤20ms | |
| Max. Operation Frequency | Mechanical | 1800 operations/h |
| | Rated Load | 2400 operations/h |
| Isolation Resistance ⁽³⁾ | ≥1000mΩ (500VDC) | |
| Dielectric Strength | Between Contacts of the same polarity | 1000VAC 50/60Hz 1min |
| | Between Contacts of different polarity | 2000VAC 50/60Hz 1min |
| | Between Coil and Contacts | 2000VAC 50/60Hz 1min |
| Vibration Resistance | Destruction | 10~55~10Hz Double Amplitude: 1.0mm |
| | Malfunction | 10~55~10Hz Double Amplitude: 1.0mm |
| Shock Resistance | Destruction | 1000m/s ² (about 100g) |
| | Malfunction | 200m/s ² (about 20g) |
| Ambient Operating Temperature | -40°C~+70°C (No Icing or Condensation) | |
| Ambient Humidity | 5%~85%RH | |
| Weight | 35g~ | |

Notes: The value above is original value
1. Measurement conditions: 1A at 5VDC using the voltage drop method.
2. Measurement conditions: With rated operating power applied, not including contact bounce time.
3. Measurement conditions: For 500VDC applied to the same location as for dielectric strength measurement.

Installation dimension, wiring diagram

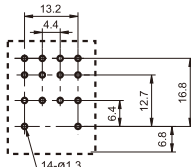
Unit: mm

RG22-2D/2A□L
RG23-2D/2A□L

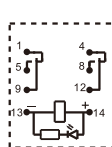


Installation dimension(bottom view)

RG22-4D/4A□L
RG23-4D/4A□L

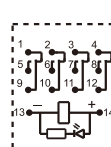


RG22-2D/2A□L
RG23-2D/2A□L



note: AC control products with LED need not consider the polarity

RG22-4D/4A□L
RG23-4D/4A□L



Wiring Diagram(bottom view)

Note:
1. The Tolerance is +0.2 when the dimension <1mm, =-0.3 when dimension between 1-5mm, and =-0.4 when the dimension >5mm
2. The tolerance is =-0.1mm about the mounting hole

RG Series Socket

| RL | - | G | 08 | S |
|--------------|---|------------------|--|---|
| Relay Socket | | RG series socket | Relay Type: 08: For 2 poles 11: For 3 poles 14: For 4 poles | Socket type: E: without finger protection F: with finger protection U: U type N: N type S: Fast wiring |



Feature

- Dielectric strength: 2000VAC, insulation resistance: 1000MΩ
- Installation: Screw or Din-rail
- Finger protection (optional)
- Accessories: Clips/Marker/Function module
- Environment friendly (RoHS compliant)


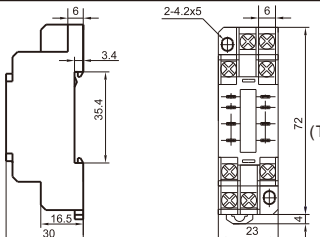
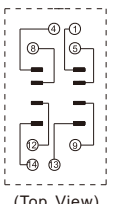
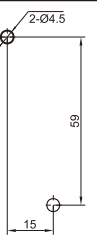

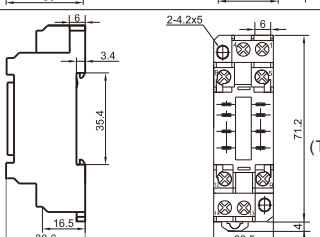
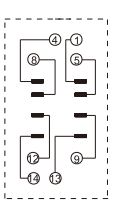
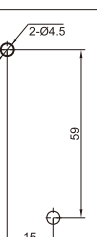

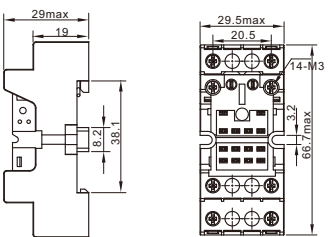
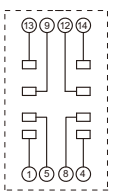

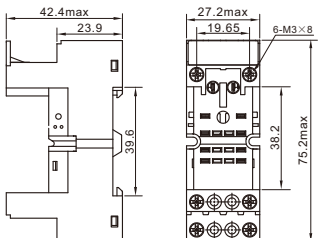
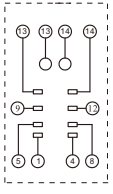

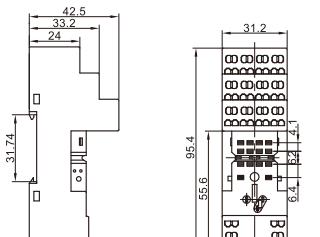
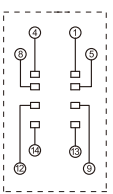



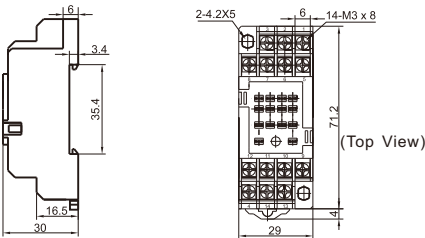
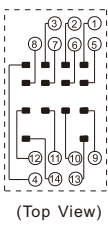
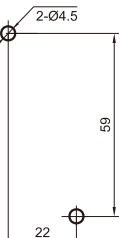

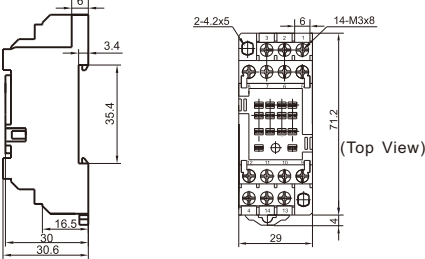
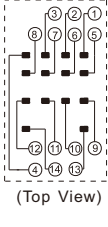
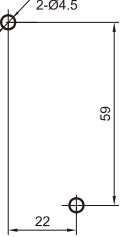

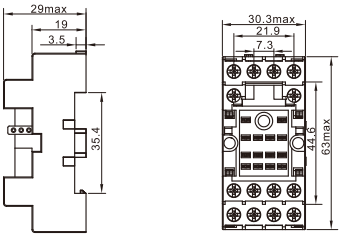
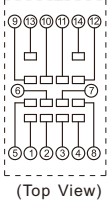

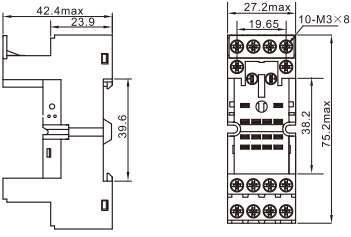
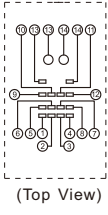

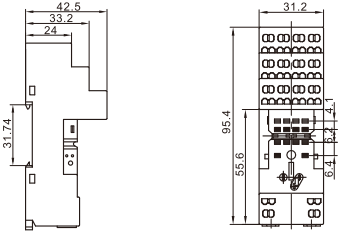
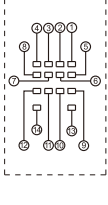
Characteristics

| Type | Nominal Voltage | Nominal Current | Ambient Temperature | Dielectric Strength Min. | Screw Torque | Wire Strip Length |
|---------|-----------------|-----------------|---------------------|--------------------------|--------------|-------------------|
| RL-G08E | 300VAC | 10A | -40°C~70°C | 2000VAC | 0.8N.m | 7mm |
| RL-G08F | 300VAC | 10A | -40°C~70°C | 2000VAC | 0.8N.m | 7mm |
| RL-G14E | 300VAC | 10A | -40°C~70°C | 2000VAC | 0.8N.m | 7mm |
| RL-G14F | 300VAC | 10A | -40°C~70°C | 2000VAC | 0.8N.m | 7mm |

Outline Dimensions, Wiring Diagram and PC Board Layout

Unit:mm

| Socket | Outline Dimensions | Wiring Diagram | PC Board Layout | Accessory Available |
|--|---|---|--|--|
| RL-G08E  Screw terminal Panel or Din-rail installation Without finger protection For 2 poles relay |  (Top View) |  (Top View) |  | Metallic Retainer (be used in sets) |
| RL-G08F  Screw terminal Din-rail installation With finger protection For 2 poles relay |  (Top View) |  (Top View) |  | Metallic Retainer (be used in sets) |
| RL-G08U  Screw terminal Din-rail installation With finger protection For 2 poles relay |  |  | — | Metallic Retainer (be used in sets) |
| RL-G08N  Screw terminal Din-rail installation With finger protection For 2 poles relay |  |  | — | Metallic Retainer (be used in sets) |
| RL-G08S  Tension terminal Din-rail installation For 2 poles relay |  |  | — | Metallic Retainer (be used in sets) |

| Socket | Outline Dimensions | Wiring Diagram | PC Board Layout | Accessory Available |
|---|---|--|---|--|
| RL-G14E  Screw terminal Panel or Din-rail installation Without finger protection For 4 poles relay |  |  |  | Metallic Retainer (be used in sets) |
| RL-G14F  Screw terminal Panel or Din-rail installation With finger protection For 4 poles relay |  |  |  | Metallic Retainer (be used in sets) |
| RL-G14U  Screw terminal Din-rail installation With finger protection For 4 poles relay |  |  | — | Metallic Retainer (be used in sets) |
| RL-G14N  Screw terminal Din-rail installation With finger protection For 4 poles relay |  |  | — | Metallic Retainer (be used in sets) |
| RL-G14S  Tension terminal Din-rail installation For 4 poles relay |  |  | — | Metallic Retainer (be used in sets) |
| ■ Cross connector | | | | Unit:mm |

RLJ-GK (For RL-□□U, RL-□□N, RL-□□S)



Notices

1. Please choose suitable relay sockets according to the actual mounting environment, relay contact poles and terminal layout. If there is any query on selection, please contact Mibbo for the technical service.
2. Sockets which can be mounted with markets is furnished with a market. As for other related component, they should be selected separately. Please do give clear indication of the types of relay sockets and related component you choose while packing order.
3. The above is only an example of typical socket and related component type which is suitable to RG relay. If you have any special requirements, please contact us.
4. Main outline dimension (L, W, H) $\geq 50\text{mm}$, tolerance should be $\pm 1\text{mm}$, outline dimension $> 20\text{mm}$ and $< 50\text{mm}$, tolerance should be $\pm 0.5\text{mm}$, outline dimension $\leq 20\text{mm}$, tolerance should be $\pm 0.3\text{mm}$.

RH Series High Power Relay

| RH | - | 1 | D | 024 | L | G |
|------------------|---|--|------------------------------|---|------------|--|
| High power relay | | Contact arrangement 1: 1 pole 2: 2 poles | Coil Power D: DC A: AC | Coil Voltage DC:12VDC to 110VDC AC:12VAC to 230 VAC | L:with LED | G:Gold plated contact Non:Silver plated contact |



Feature

- Multiple switching capability (1C:15A, 2C:10A type)
- Ag plated, gold plated contact available
- Built-in operating indicator
- 15.0kV dielectric strength (between coil and contacts)
- Lead-free,environmental friendly product(RoHS compliant)

| Model No. | AC | RH-1A012L | RH-1A024L | RH-1A048L | RH-1A110L | RH-1A230L |
|-----------|----|-----------|-----------|-----------|-----------|-----------|
| | | RH-2A012L | RH-2A024L | RH-2A048L | RH-2A110L | — |
| | DC | RH-1D012L | RH-1D024L | RH-1D048L | RH-1D110L | RH-1D230L |
| | | RH-2D012L | RH-2D024L | RH-2D048L | RH-2D110L | — |

Specification

| Contact Data | |
|---|--|
| Contact Arrangement | 1D、1A 2D、2A |
| Contact Resistance | $\leq 100\text{m}\Omega$ (1A 6VDC) |
| Contact Material | Silver Plated(Gold Plated Available) |
| Rated Load | 15A 250VAC/30VDC 10A 250VAC/30VDC |
| Max Operating Voltage | 250VAC/30VDC |
| Max Operating Current | 15A |
| Max Operating Power | 3750VA/450W 2500VA/300W |
| Mechanical Endurance | 1×10^7 次 |
| Electrical Endurance | 1D/1A: 1×10^5 ops(15A 250VAC/30VDC, Resistive load, Room temp, 1s on 9s off) 2D/2A: 1×10^5 ops(10A 250VAC/30VDC, Resistive load, Room temp, 1s on 9s off) |
| Characteristics | |
| Insulation Resistance | 500M Ω (500VDC) |
| Dielectric Strength | Between Coil and Contacts 1500VAC 1min |
| | Between Contacts of the same polarity 1000VAC 1min |
| | Between Contacts of different polarity 1500VAC 1min |
| Operation Time (At nomi.volt.) | $\leq 25\text{ms}$ (DC control) |
| Release Time (At nomi.volt.) | $\leq 25\text{ms}$ (DC control) |
| Temperature Rise (No-Load, At nomi.volt.) | $\leq 60\text{K}$ |
| Shock Resistance | Functional 98m/s ² |
| | Destructive 980m/s ² |
| Vibration Resistance | 10Hz~55Hz 1mm Double Amplitude |
| Humidity | 5%~85%RH |
| Ambient Temperature | -40°C~70°C |
| Terminal | Plug in |
| Unit Weight | About 37g |
| Construction | Dust proof |
| COIL | |
| Coil Power | DC:about (0.9~1.1)W; AC:about (1.2~1.8)VA |

Coil Data 25°C

| Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Max. Voltage ⁽²⁾ VDC | Coil Resistance Ω |
|---------------------|---------------------|----------------------|---------------------------------|-----------------------------|
| 12 | ≤ 9.6 | ≥ 1.2 | 13.2 | $160 \times (1 \pm 10\%)$ |
| 24 | ≤ 19.2 | ≥ 2.4 | 26.4 | $650 \times (1 \pm 10\%)$ |
| 48 | ≤ 38.4 | ≥ 4.8 | 52.8 | $2600 \times (1 \pm 15\%)$ |
| 110 | ≤ 88.0 | ≥ 11.0 | 121 | $11000 \times (1 \pm 15\%)$ |

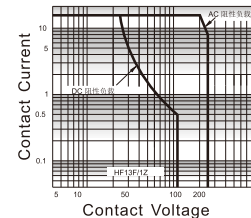
Coil Data 25°C

| Nominal Voltage VAC | Pick-up Voltage VAC | Drop-out Voltage VAC | Max. Voltage ⁽²⁾ VAC | Coil Resistance Ω |
|---------------------|---------------------|----------------------|---------------------------------|-----------------------------|
| 12 | ≤ 9.6 | ≥ 3.6 | 13.2 | $46 \times (1 \pm 10\%)$ |
| 24 | ≤ 19.2 | ≥ 7.2 | 26.4 | $184 \times (1 \pm 10\%)$ |
| 48 | ≤ 38.4 | ≥ 14.4 | 52.8 | $735 \times (1 \pm 10\%)$ |
| 110 | ≤ 96.0 | ≥ 36.0 | 132 | $4550 \times (1 \pm 15\%)$ |
| 230 | ≤ 176.0 | ≥ 72.0 | 264 | $14400 \times (1 \pm 15\%)$ |

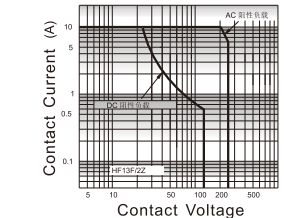
- Notes: 1) Under ambient temperature, applying more than 80% of rating voltage to coil, relays will take action accordingly. But in order to meet the stated product performance, please apply rated voltage to coil.
2) Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.
3) The above values are all initial value.

Characteristic Curves

Maximum Switching Power(1D/1A)



Maximum Switching Power(2D/2A)

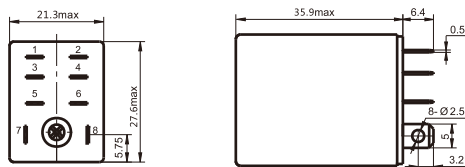


Outline Dimensions, Wiring Diagram and PC Board Layout

Unit: mm

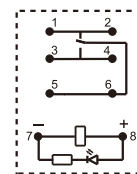
RH-1D/1A□L

Outline Dimensions



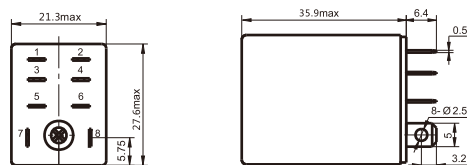
Wiring Diagram (Bottom View)

(With LED)



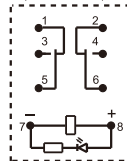
Remark: For AC parts with diode, the positive and negative pole markings on wiring diagram are not applicable.

RH-2D/2A□L



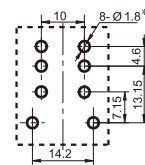
Wiring Diagram (Bottom View)

(With LED)



Remark: For AC parts with diodes, the positive and negative pole markings on wiring diagram are not applicable.

PC Board Layout (Bottom View)



*: Please adjust the site of this diameter according to the actual application

- Remarks: (1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$, outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$, outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
(2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

| RL | - | H | 08 | F |
|--------------|---|------------------|--|--|
| Relay socket | | RH Series socket | Relay Type: 08: For 1 pole or 2 poles | Finger protection E: Without finger protection F: With finger protection |



Feature


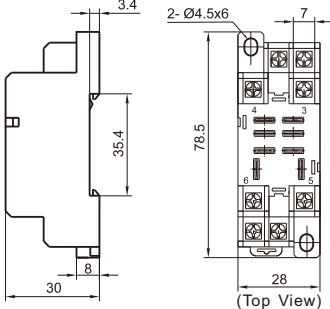
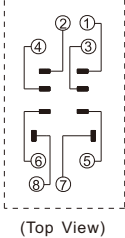
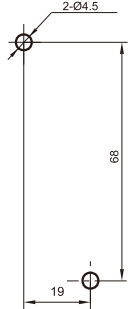

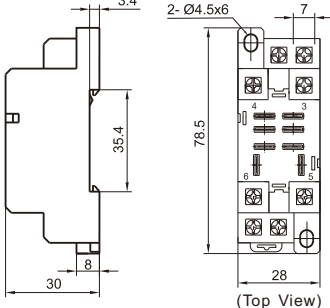
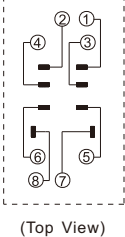
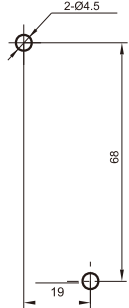
- The dielectric strength can reach 2000VAC and the insulation resistance is 1000mΩ
- Screw mounting and DIN rail mounting
- With finger protection device
- Components available: Metallic Retainer
- Environmental friendly products (RoHS compliant)

Characteristics

| Type | Nominal Voltage | Nominal Current | Ambient Temperature | Dielectric Strength Min. | Screw Torque | Wire Strip Length |
|---------|-----------------|-----------------|---------------------|--------------------------|--------------|-------------------|
| RL-H08E | 300VAC | 16A | -40°C~70°C | 2000VAC | 1.0N.m | 7mm |
| RL-H08F | 300VAC | 16A | -40°C~70°C | 2000VAC | 1.0N.m | 7mm |

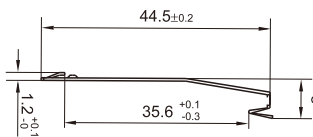
Outline Dimensions, Wiring Diagram and PC

Unit:mm

| Socket | Outline Dimensions | Wiring Diagram | PC Board Layout | Accessory Available |
|--|--|---|--|---------------------|
| RL-H08E  Screw terminal Din-rail or panel mounting With finger protection |  |  (Top View) |  | Metallic Retainer |
| RL-H08F  Screw terminal Din-rail or panel mounting With finger protection |  |  (Top View) |  | Metallic Retainer |

Dimension of Related Accessory (Available)

Unit:mm



Remark: Retainer has to be used in sets, please pay special attention while placing the order.

Notices

- Please choose suitable relay sockets according to the actual mounting environment, relay contact poles and terminal layout. If there is any query on selection. Please contact Mibbo for the technical service.
- Sockets which can be mounted with markets is furnished with a market. As for other related component, they should be selected separately. Please do give clear indication of the types of relay sockets and related component you choose while placing order.
- The above is only an example of typical socket and related component type which is suitable to RG relay. If you have any special requirements, please contact us.
- Main outline dimension (L.W.H) ≥ 50mm, tolerance should be ±1mm, outline dimension > 20mm and < 50mm, tolerance should be ±0.5mm, outline dimension ≤ 20mm, tolerance should be ±0.3mm.

RM Series Thin type relay

| RM32 | - | 1 | D | 024 | L |
|---|---|--|------------------------------|------------------------|---|
| Series The Universal series is RM32 Lockout Series RM33 | Contact 1: Set of transformations 2: Two-group conversion | Control current A: Communication D: direct current | Control voltage 024:24VDC | Features :L with light | |



Feature

- 1 group (12A) 2 groups (8A) convert contact type
- Thin type relay is only 13mm
- Contact-coil resistance voltage 5000V/8mm
- Low coil power consumption
- Suitable for environmental protection RoHS
- Combination with Push-In Plus socket RL-□S can shorten 60% of distribution hours

| Model No. | AC | RM32-1A012L | RM32-1A024L | RM32-1A048L | RM32-1A110L | RM32-1A220L |
|-----------|----|-------------|-------------|-------------|-------------|-------------|
| | | RM32-2A012L | RM32-2A024L | RM32-2A048L | RM32-2A110L | RM32-2A220L |
| | DC | RM32-1D012L | RM32-1D024L | RM32-1D048L | RM32-1D110L | RM32-1D220L |
| | | RM32-2D012L | RM32-2D024L | RM32-2D048L | RM32-2D110L | RM32-2D220L |
| | AC | RM33-1A012L | RM33-1A024L | RM33-1A048L | RM33-1A110L | RM33-1A220L |
| | | RM33-2A012L | RM33-2A024L | RM33-2A048L | RM33-2A110L | RM33-2A220L |
| | DC | RM33-1D012L | RM33-1D024L | RM33-1D048L | RM33-1D110L | RM33-1D220L |
| | | RM33-2D012L | RM33-2D024L | RM33-2D048L | RM33-2D110L | RM33-2D220L |

Specification

| Coil ⁽¹⁾ | | | | | | | | | | |
|---------------------|-----|-------------------|------|------------------------|--------------------|-------|-------------------------------------|-----------------------------------|--------------|---------------------------------|
| Nominal Voltage | | Rated Current(mA) | | Coil Resistance (Ω) | Coil Inductance(H) | | Operation ⁽²⁾ Voltage | Release ⁽³⁾ Voltage | Max. Voltage | Power Dissipation (VA, W) |
| | | 50Hz | 60Hz | | OFF | ON | | | | |
| AC | 12 | 93 | 75 | 65 | 0.19 | 0.39 | ≤80% (Rated Voltage) | ≤30% (Rated Voltage) | 100% | ~0.960Hz |
| | 24 | 43.5 | 37.4 | 253 | 0.81 | 1.55 | | | | |
| | 110 | 11 | 10.6 | 4655 | 13.34 | 26.84 | | | | |
| | 220 | 5.5 | 5.3 | 20200 | 51.3 | 102.0 | | | | |
| DC | 12 | 43.2 | | 278 | 0.98 | 2.35 | ≤75% (Rated Voltage) | ≤15% (Rated Voltage) | 100% | ~0.0.53Hz |
| | 24 | 21.6 | | 1113 | 3.60 | 8.25 | | | | |
| | 48 | 11.4 | | 4220 | 15.2 | 29.82 | | | | |
| | 110 | 5.2 | | 19096 | 67.2 | 93.2 | | | | |

Notes:
 1. The value in this table is measured at a coil temperature of 23°C with tolerances of +15%/-20% for the AC rated current and +15% for the DC coil resistance.
 2. There is variation between products, but actual values are 80% max. The Relay will operate if 80% or higher of the rated voltage is applied. However, to achieve the specified characteristics, apply the rated voltage to the coil.
 3. There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value.

| Contacts Data ⁽¹⁾ | | | | |
|---------------------------------------|-------------------------|---------------------------|-----------------------|-----------------------|
| | 1 poles | | 2 poles | |
| | Resistive Load | Inductive Load | Resistive Load | Inductive Load |
| Contact Material | AgNi 10 | | | |
| Rated Load | AC250V 12A 24VDC 12A | AC250V 7.5A 24VDC 7.5A | AC250V 8A 24VDC 8A | AC250V 3A 24VDC 3A |
| Electrical Endurance ⁽²⁾ | ≥1x10 ⁵ | | | |
| Mechanical Endurance ⁽³⁾ | ≥1x10 ⁷ | | | |
| Rated Current | 12A | | 8A | |
| Max. Contact Voltage | AC440, DC125V | | AC380, DC125V | |
| Max. Contact Current | 16A | | 10A | |
| Max. Switching Capacity | 2500VA/300W | AC1, 875VA/DC150W | AC1, 250VA/DC150W | AC1, 500VA/DC90W |
| Min. Load (references) ⁽⁴⁾ | 100mA at 5VDC | | 10mA at 5VDC | |

Notes:
 1. The value in the table is based on the ambient temperature of +23°C
 2. Rated load operating frequency 2400 operation/h, at +23°C ambient temperature and duty ratio is 33%
 3. Rated load operating frequency 1800 operation/h, at +23°C ambient temperature and duty ratio is 33%
 4. These values are guides for the switchable limits for minute load levels, such as in electronic circuits. Actual characteristics may be different. These values will depend on the switching frequency, atmosphere, and expected reliability level. Confirm applicability in the actual system under actual application conditions.

| Main Unit Data | | |
|-----------------------------------|--|------------------------------------|
| | 1 poles | 2 poles |
| Contact Resistance ⁽¹⁾ | ≤50mΩ (1A 6VDC) | |
| Operation Time ⁽²⁾ | ≤20ms | |
| Release Time ⁽²⁾ | ≤10ms | |
| Max. Operation Frequency | Mechanical | 18000 operations/h |
| | Rated Load | 1800 operations/h |
| Dielectric Strength | Between Contacts of the same polarity | 1000VAC 50/60Hz 1min |
| | Between Contacts of different polarity | 3000VAC 50/60Hz 1min |
| | Between Coil and Contacts | 5000VAC 50/60Hz 1min |
| Vibration Resistance | Destruction | 10~55~10Hz Double Amplitude: 1.0mm |
| | Malfunction | 10~55~10Hz Double Amplitude: 1.0mm |
| Shock Resistance | Destruction | 1000m/s ² (约100g) |
| | Malfunction | 200m/s ² (约20g) |
| Ambient Operating Temperature | -40°C~+70°C (No Icing or Condensation) | |
| Ambient Humidity | 5%~85%RH | |
| Weight | ~20g | |

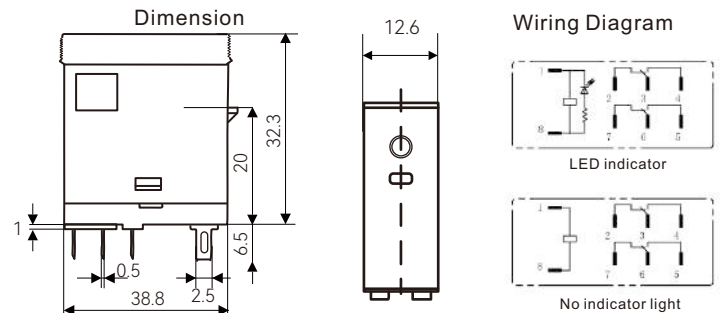
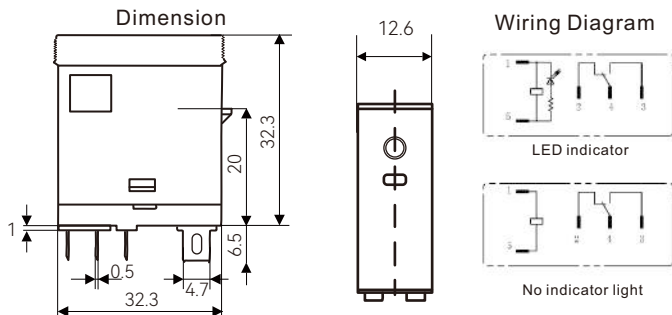
Notes: The value above is original value
 1. Measurement conditions: 1A at 5VDC using the voltage drop method.
 2. Measurement conditions: With rated operating power applied, not including contact bounce time.
 3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.

Installation dimension, wiring diagram

Unit:mm

RM32-1D/1A□

RM32-2D/2A□



| RL | - | M | 08 | E |
|--------------|---|------------------|---|---|
| Relay socket | | RM Series socket | Relay type 05: For 1 pole relay 08: For 2 poles relay | Protection: E: Without finger protection F: With finger protection U: Euro type terminals P: PCB installation |



■ Feature

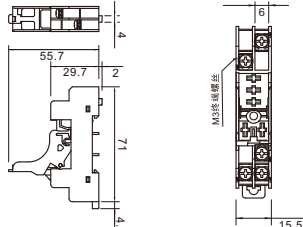
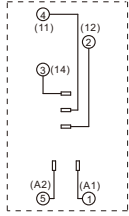

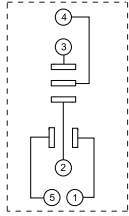
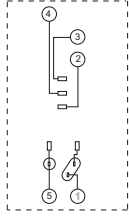

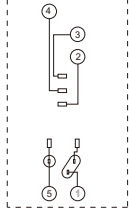

- Dielectric strength reaches 2500VAC and the insulation resistance is 1000MΩ
- Screw or Din rail installation optional
- Accessories: Plastic clip, Marker, Cross connector
- Environment friendly(RoHS Compliant)


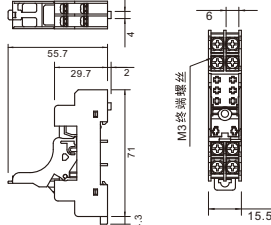
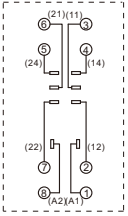

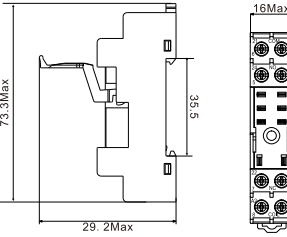
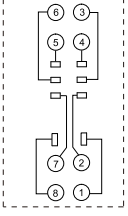

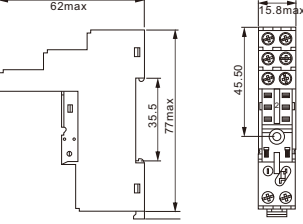
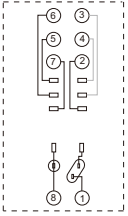

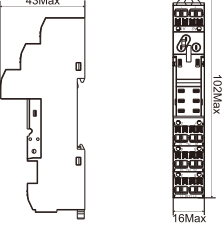
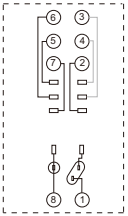
■ Characteristics

| Type | Nominal Voltage | Nominal Current | Ambient Temperature | Dielectric Strength Min. | Screw Torque | Wire Strip Length |
|--------|-----------------|-----------------|---------------------|--------------------------|--------------|-------------------|
| RL-M□□ | 300VAC | 16A | -45°C~85°C | 2500VAC | 1. 0N. m | 7mm |

■ Outline Dimensions, Wiring Diagram and PC Board Layout

Unit:mm

| Socket | Outline Dimensions | Wiring Diagram |
|--|---|---|
| RL-M05A  PCB installation For 1 pole relays |  |  |
| RL-M05E  Screw terminals Din rail installation For 1 pole relays |  |  |
| RL-M05F  Screw terminals Din rail installation With finger protection For 1 pole relays |  |  |
| RL-M05U  Screw terminals Din rail installation With finger protection For 1 pole relays |  |  |
| RL-M05S  Tension terminals Din rail installation For 1 poles relays |  |  |
| RL-M08A  PCB installation For 2 poles relays |  |  |

| Socket | Outline Dimensions | Wiring Diagram |
|---|--|--|
| RL-M08E  <p>Screw terminals Din rail installation For 2 poles relays</p> |  |  |
| RL-M08F  <p>Screw terminals Din rail installation With finger protection For 2 poles relays</p> |  |  |
| RL-M08U  <p>Screw terminals Din rail installation With finger protection For 2 poles relays</p> |  |  |
| RL-M08S  <p>Tension terminals Din rail installation For 2 poles relays</p> |  |  |

■ Socket accessories

■ Marker

Model: RLB-M1
For socket RL-M□□U



■ Cross connector

Model: RLJ-MK
For RL-M05F/RL-M05E/
RL-M08F/RL-M08E

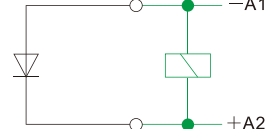
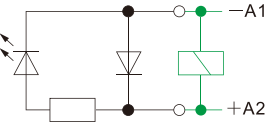


RLJ-MK

■ Function Module

| RD | - | M | 024 | L |
|-------------------|---|--|---|--|
| Protection module | | M: For RL-M□□ socket G: For RL-G□□ socket | Coil voltage 024: 6-24VAC/DC 048: 12-48VAC/DC 060: 24-60VAC/DC 240: 110-240VAC/DC | D: With Diode L: With LED DL: With Diode & LED |



| Type | Circuit Diagram | Description |
|----------|--|---|
| RD-M024D |  | <ul style="list-style-type: none"> ● Eliminate the reverse current by the diode module to protect the coil |
| RD-M024L |  | <ul style="list-style-type: none"> ● Eliminate the reverse current by the diode module to protect the coil ● LED indicate the coil status |

For more information, please contact business department.

RM03 Series PCB mounted miniature relay

| RM03 | - | 1 | D | 024 | G1 |
|--------|---|--|------------------------------|------------------------------|--------------|
| Series | | Contact arrangement 1: 1 Pole 2: 2 Poles | Coil Power A: AC D: DC | Control voltage 024:24VDC | Coil Voltage |



Feature

- Slim size(width:20mm)
- Dielectric strength:5kV/8mm
- Rated load:5A/10A
- Low coil consumption
- PCB mounted, well-sealed

| Model No. | AC | RM03-1A012 | RM03-1A024 | RM03-1A048 | RM03-1A110 | RM03-1A220 |
|-----------|----|------------|------------|------------|------------|------------|
| | DC | RM03-2A012 | RM03-2A024 | RM03-2A048 | RM03-2A110 | RM03-2A220 |
| | DC | RM03-1D012 | RM03-1D024 | RM03-1D048 | RM03-1D110 | — |
| | DC | RM03-2D012 | RM03-2D024 | RM03-2D048 | RM03-2D110 | — |

Specification

| Contact Data | |
|-----------------------------|---|
| Contact Material | AgSn0 |
| Contact Arrangement | 1D, 1A : 1Pole 2D, 2A : 2Pole |
| Contact Resistance | ≤100mΩ (1A 6VDC) |
| Rated Current | 10A 5A |
| Max Switching Current | 12A 8A |
| Rated Voltage | 250VAC/30VDC |
| Max Switching Power | 2880VA/360W |
| Min Operation Current | 10mA at 5VDC |
| Electrical Endurance | 1x10 ⁵ ops (10A 250VAC/30ADC, Resistive load, Room temp, 1s on 1s off) 1x10 ⁵ ops (5A 250VAC/30ADC, Resistive load, Room temp, 1s on 1s off) |
| Mechanical Endurance | 1*10 ⁷ |
| Characteristics | |
| Operation Time At nomi.volt | ≤20ms |
| Release Time At nomi.volt | ≤10ms |
| Ambient Temperature | -40°C~85°C |
| Protection Level | 5%~85%RH |
| Protection Level | IP67 |
| Welding Temperature | 260°C MAX |
| Welding Time | 5S MAX |
| Unit Weight | About 14g |

Insulation Data

| | | |
|-----------------------|------------------------|-----------------|
| Dielectric Strength | Between Open Contacts | 1000VAC 1Min |
| | Between Coil & Contact | 5000VAC 1Min |
| Shock Resistance | Functional | 98m/s |
| | Destructive | 980m/s |
| Insulation Resistance | | >100MΩ (500VDC) |

Coil Data (23°C)

| Nominal Voltage VAC | Coil Resistance Ω ±10% | Pick-up Voltage VAC | Max. Voltage VAC | Drop-out Voltage VAC | rated capacity (Mw) |
|---------------------|------------------------|---------------------|------------------|----------------------|---------------------|
| 12 | 270 | 9.6 | 15.6 | 0.6 | 540 |
| 24 | 1050 | 19.2 | 31.2 | 1.2 | 540 |
| 48 | 4250 | 38.4 | 62.4 | 2.4 | 540 |
| 60 | 6670 | 48.0 | 90.0 | 3.0 | 540 |
| 110 | 22400 | 88.0 | 143.0 | 5.5 | 540 |

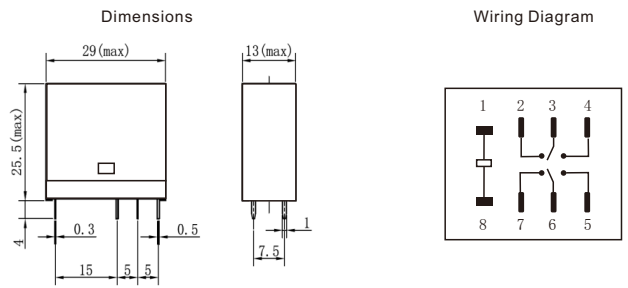
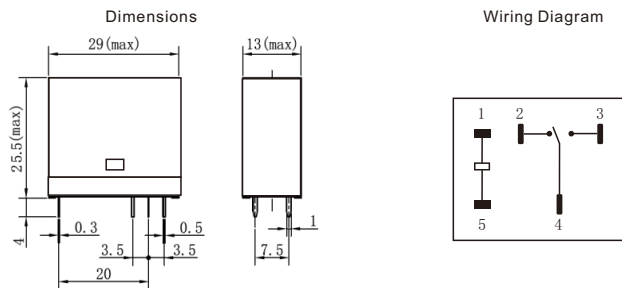
- Notes: 1) Under ambient temperature, applying more than 80% of rating voltage to coil, relays will take action accordingly. But in order to meet the stated product performance, please apply rated voltage to coil.
2) Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.
3) The above values are all initial value.

Outline Dimensions, Wiring Diagram

Unit: mm

RM03-1D/1A□

RM03-2D/2A□



RM03 Series Socket

| RL | - | M03 | 05 | AA |
|--------------|---|--------------------|---|-------------------|
| Relay socket | | RM03 Series socket | Relay type 05: For 1 pole relay 08: For 2 poles relay | Finger protection |



Feature

- Dielectric strength reaches 2500VAC and the insulation resistance is 1000MΩ
- Screw or Din rail installation optional
- Accessories: Metallic clip
- Environment friendly(RoHS Compliant)

Characteristics

| Type | Nominal Voltage | Nominal Current | Ambient Temperature | Dielectric Strength Min. |
|------------|-----------------|-----------------|---------------------|--------------------------|
| RL-M0305AA | 300VAC | 10A | -25~+85°C | 1500VAC |
| RL-M0308AA | 300VAC | 10A | -25~+85°C | 1500VAC |

Outline Dimensions, Wiring Diagram and PC

Unit: mm

| Socket | Outline Dimensions | Socket | Outline Dimensions |
|------------|--------------------|------------|--------------------|
| RL-M0305AA | | RL-M0308AA | |

SN/SAN Series I/O Power Supply



■ Feature

- 1 Form NO and 1 Form C configurations
- 4.0kV dielectric strength (between coil and contacts)
- Operation time:8 ms max.
- Miniature in size,save space
- Screw mounting or Push-in Plug available

| RN | - | U024 | S |
|-----------|---|--|--|
| I/O Relay | | Coil Voltage U012:AC/DC 12V U024:AC/DC 24V U048:AC/DC 48V U110:AC/DC 110V U220:AC/DC 220V | Socket Type E: Screw Terminal Connection S: Push-in Connection |



■ Feature

- Sensitive response,High switching frequency,fast and accurate (Turn ON Max. 50μs,Turn OFF Max. 300μs)
- No operation noise, quiet and reliable
- Maintenance-free, long lifetime.
- Optoelectronic isolation,dielectric: 2500VAC
- Compliance to EMC, suitable for application in harsh environment.Application in the interface circuit with PLC

| SAN | - | 3 | 24D | 024 | S |
|---------|---|------------------------|---|---|--|
| I/O SSR | | Rated Current 3: 3A | Control Voltage 12D:DC12V 24D:DC24V | Load Voltage 24:DC24V 2Z:48-280VAC/ | Socket Type E: Screw terminal connection S: Push-in Connection |

Kits

| Order Number | | Specification | |
|----------------|-------------------|-----------------|-----------------|
| Screw terminal | Push-in Connector | Control Voltage | Load(Resistive) |
| RN-U012E | RN-U012S | AC/DC: 12V | 6A 250VAC/30VDC |
| RN-U024E | RN-U024S | AC/DC: 24V | |
| RN-U048E | RN-U048S | AC/DC: 48V | |
| RN-U060E | RN-U060S | AC/DC: 60V | |
| RN-U0110E | RN-U0110S | AC/DC: 110V | |
| RN-U0220E | RN-U0220S | AC/DC: 220V | |

More technical information, please refer to data sheet of the products

Kits

| Order Number | | Specification | | |
|----------------|-------------------|---------------|-----------------|--------------|
| Screw terminal | Push-in Connector | Load Current | Control Voltage | Load Voltage |
| SAN-312D24E | SAN-31224S | 3A | DC12V | DC24V |
| SAN-324D24E | SAN-32424S | 3A | DC24V | DC24V |
| SAN-212D2ZE | SAN-212D2ZS | 2A | DC12V | AC: 48-280V |
| SAN-224D2ZE | SAN-224D2ZS | 2A | DC24V | AC: 48-280V |

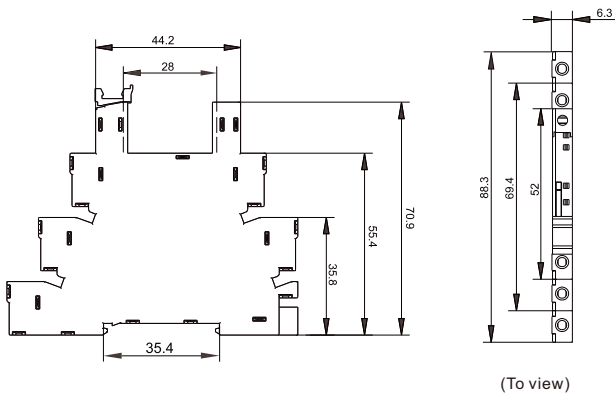
More technical information, please refer to data sheet of the products

Dimension & Wiring Diagram

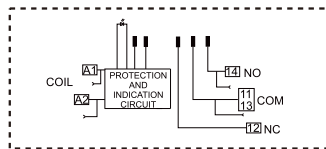
Unit: mm

RL-N05E□ Series Screw Terminal

Dimension

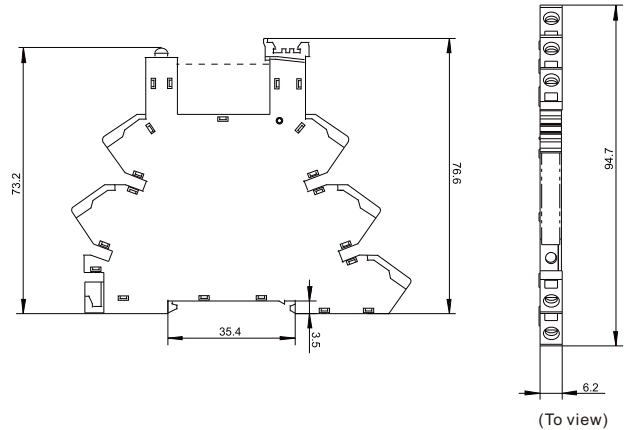


Wiring Diagram

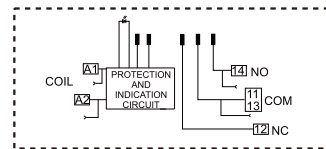


RL-N05S□ Series Push-in Connector

Dimension



Wiring Diagram



■ I/O Wiring adapter, Cross connector



RL-NR

I/O Wiring adapter



RLJ-NB



RLJ-NK

Cross connector



RLJ-NR



Feature

- 4 channel, 8 channel single contact relay(5A)
- LED indicator for power on
- DC24V, NO
- Mechanical endurance: 2*10⁵ ops
- Outline Dimensions: 68x 32 x 39mm

| RN12 | - | 1 | D | 024 | N | 04 |
|---------------------|---|--------------------------------|------------------------|------------------------------|------------------------|------------------|
| Relay Module Series | | Contact 1: 1 pole per relay | Control Power D: DC | Control Voltage 024:24VDC | Control Input N:NPN | Numbers of Relay |

Specification

| Model | RN12-1D024N04 | RN12-1D024N08 |
|---------------------------------|--|---------------|
| Input Control Type | NPN Input | |
| Number of Relays | 4 | 8 |
| Coil Voltage | DC 24V | |
| Contact Type | ON | |
| Max. Contact Operating Current | 3A | |
| Electric Endurance of Contact | 5x10 ⁵ Operations Min. | |
| Mechanical Endurance of Contact | 2x10 ⁸ Operations Min. (1200 time per hour) | |
| Dimension | 32*67.5*39mm | 64*68*40mm |
| Installation | T35 Din-rail or M3 screw installation | |
| Humidity Range | 5%~85%RH (No icing or condensation) | |
| Temperate Range | -10°C~+50°C | |

Notice:

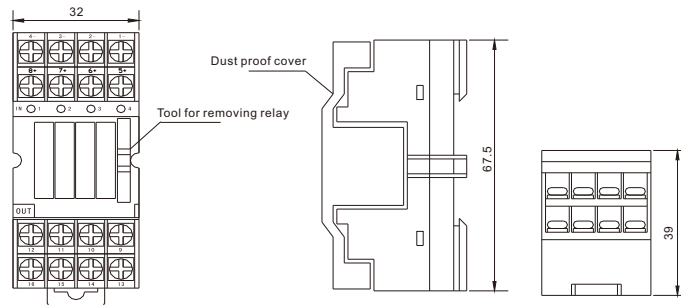
1. Please confirm the type of load and the dimension before placing order
2. Please contact with Mibbo support engineer about the contact protection3. Please choose Mibbo cable when connecting to PLC.

Dimension & Wiring Diagram

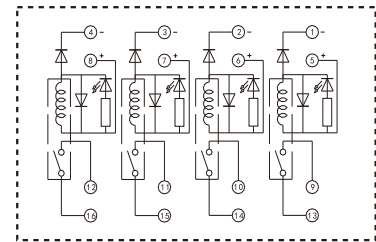
Unit: mm

RN12-1D024N04

Dimension



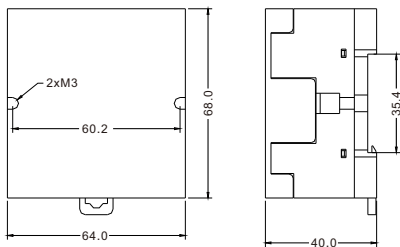
Wiring Diagram



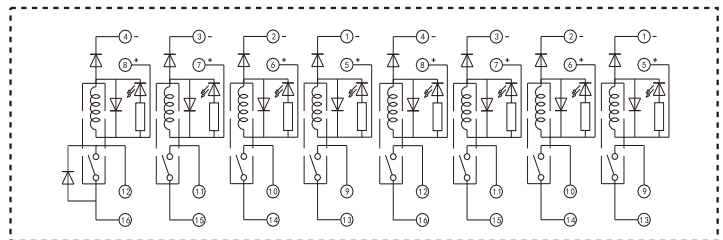
RN12-1D024N08

Unit: mm

Dimension



Wiring Diagram



RN13 Series I/O Relay Module



- Feature
- 4 channel single contact relay(5A)
 - LED indicator for power on
 - DC24V, NO
 - Mechanical endurance: 5*10 ops
 - Outline Dimensions(L*W*H): 83x 48 x 38mm

RN13

Relay Module Series

-

Contact
1: 1 pole per relay

1

Control Power
D: DC

D

Control Voltage
024:24VDC

024

Control Input
N:NPN

N

Numbers of Relay

04

Specification

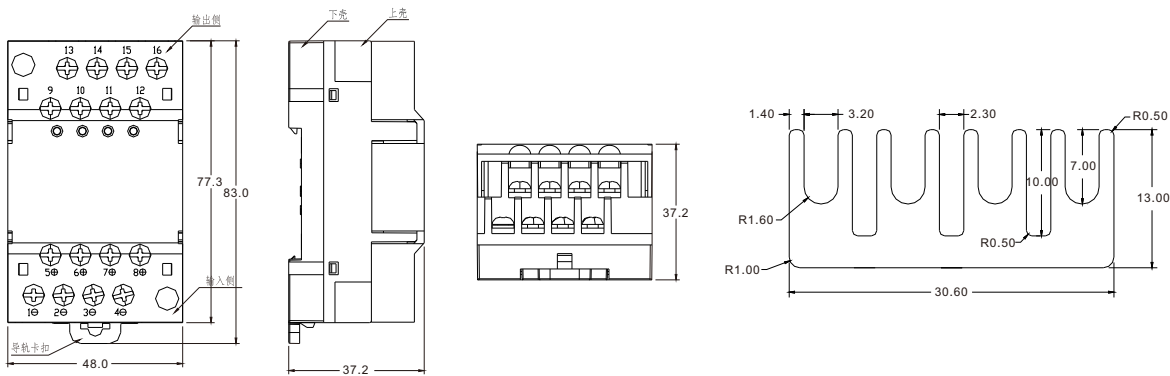
| 4 Channels Module | |
|---------------------------------|--|
| Model | RN13-1D024N04 |
| Input Control Type | NPN Input |
| No. of Relays | 4 |
| Coil Voltage | DC 24V |
| Contact Type | ON |
| Max. Contact Operating Current | 5A |
| Electric Endurance of Contact | 10x10 ⁵ Operations Min. |
| Mechanical Endurance of Contact | 5x10 ⁸ Operations Min. (1200 time per hour) |
| Dimension | 48*83*37.2mm |
| Installation | T35 Din-rail |
| Humidity Range | 5%~85%RH (No icing or condensation) |
| Temperate Range | -10℃~+50℃ |

Notice:
1. Please confirm the type of load and the dimension before placing order
2. Please contact with Mibbo support engineer about the contact protection3.Please choose Mibbo cable when connecting to PLC.

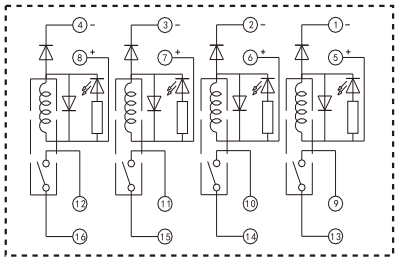
Dimension & Wiring Diagram

Unit: mm

Dimension



Wiring Diagram





Feature

- NPN/PNP bi-polar compatibility
- Simple pluggable design, easy to install and replace
- Quick-plug terminals, quick wiring, save time
- The number of relays can be selected according to customer needs
- With indicator light working status indication
- TS35 DIN fast assembly

| RN22 | - | 1 | D | 08 | S |
|---------------------|---|--|-----------------------|-------------------------------|---|
| Relay Module Series | | Contact | Control voltage | Relay bit | Connection mode |
| | | 1: Set of transformations 2: Two-group conversion | b: 24Vdc A: 220VAc | 2: 2PCS 4: 4PCS 6: 6PCS | E: Screw mounting S: Quick-plug terminal |

Specification

| Input coil parameter | | | | | | | | | |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Set of transformations (DC24V) | RN22-1D02S | RN22-1D04S | RN22-1D06S | RN22-1D08S | RN22-1D10S | RN22-1D12S | RN22-1D16S | RN22-1D20S | RN22-1D24S |
| | RN22-1D02E | RN22-1D04E | RN22-1D06E | RN22-1D08E | RN22-1D10E | RN22-1D12E | RN22-1D16E | RN22-1D20E | RN22-1D24E |
| Two-group conversion (DC24V) | RN22-2D02S | RN22-2D04S | RN22-2D06S | RN22-2D08S | RN22-2D10S | RN22-2D12S | RN22-2D16S | RN22-2D20S | RN22-2D24S |
| | RN22-2D02E | RN22-2D04E | RN22-2D06E | RN22-2D08E | RN22-2D10E | RN22-2D12E | RN22-2D16E | RN22-2D20E | RN22-2D24E |
| Set of transformations (AC220V) | RN22-1A02S | RN22-1A04S | RN22-1A06S | RN22-1A08S | RN22-1A10S | RN22-1A12S | RN22-1A16S | RN22-1A20S | RN22-1A24S |
| | RN22-1A02E | RN22-1A04E | RN22-1A06E | RN22-1A08E | RN22-1A10E | RN22-1A12E | RN22-1A16E | RN22-1A20E | RN22-1A24E |
| Two-group conversion (AC220V) | RN22-2A02S | RN22-2A04S | RN22-2A06S | RN22-2A08S | RN22-2A10S | RN22-2A12S | RN22-2A16S | RN22-2A20S | RN22-2A24S |
| | RN22-2A02E | RN22-2A04E | RN22-2A06E | RN22-2A08E | RN22-2A10E | RN22-2A12E | RN22-2A16E | RN22-2A20E | RN22-2A24E |

| Input coil parameter | | |
|------------------------------------|-----------------------|---------------------|
| Control power supply | DC24V | AC220V |
| Control mode | NPN/PNP compatibility | |
| Individual rated power consumption | ~0.53W | ~0.9VA |
| Operating voltage | ≤ Rated voltage 75% | ≤ Rated voltage 80% |
| Release voltage | ≥ Rated voltage 10% | ≥ Rated voltage 30% |
| Action time | ≤ 20ms | |
| Release time | ≤ 10ms | |

| Contact parameter | | |
|--------------------|--|---|
| Contact form | 1poles | 2poles |
| Contact resistance | ≤ 100mΩ | |
| Contact material | AgNi10 | |
| Contact load | 12A 250Vac/30Vdc | 8A 250Vac/30Vdc |
| Mechanical life | 1*10 ⁷ | |
| Electrical life | 1*10 ⁵ (12A 250Vac/30Vdc, Resistive load, room temperature, 1s on and 1s off) | 1*10 ⁵ (8A 250Vac/30Vdc, Resistive load, room temperature, 1s on and 1s off) |
| Protection circuit | Varistor protection (Set of transformations) | -- |

| Input coil parameter | | |
|-----------------------------|---|----------------------|
| Maximum switching frequency | machinery | 18000time/H |
| | Rated load | 1800time/H |
| Insulation resistance | ≥ 100MΩ (500Vdc) | |
| Withstand voltage | Between the same pole contacts | 1000VAC 50/60Hz 1min |
| | Between polar contacts | 3000VAC 50/60Hz 1min |
| | Between coil and contact | 3000VAC 50/60Hz 1min |
| vibration | 10~55~10Hz Double amplitude: 1.0mm | |
| impact | 1000m/s | |
| Service temperature range | -40℃~+70℃ (ice-free) | |
| Service humidity range | 5%~85%RH (Condensation free) | |
| Stripping length | 8~9mm | |
| Input terminal type | Quick-insert, screw and MIL linker are optional | |
| Output terminal type | Quick-insert type and screw type are optional | |
| Line diameter | 0.2~1.5mm ² /28~16AWG | |
| Installation mode | Rail mounting | |

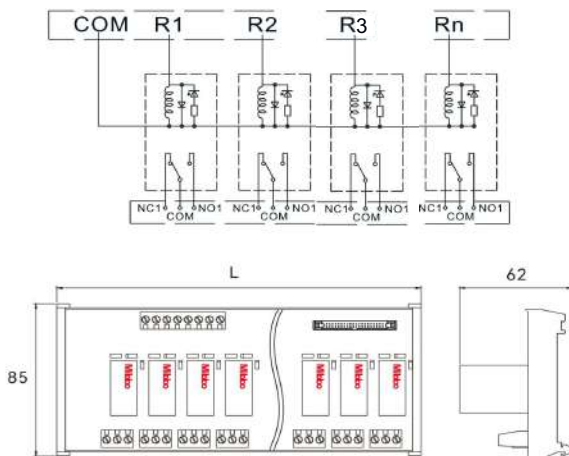
Note:
1. Please confirm the load type and size before ordering, and select the appropriate product.
2. For contact protection solutions, consult Mibbo technical engineers.

Dimensional drawing, wiring diagram

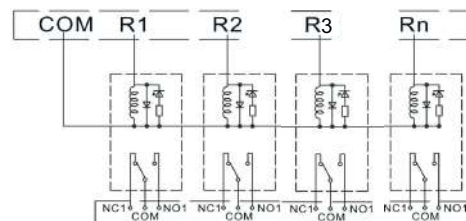
Unit: mm

Circuit diagram

1poles



2poles



| Relay bit | L width |
|-----------|----------|
| 2位 | 43. mm |
| 4位 | 83mm |
| 6位 | 117. 5mm |
| 8位 | 155, 5mm |
| 10 位 | 191mm |
| 12 位 | 226mm |
| 16 位 | 298mm |
| 20 位 | 372mm |

SSR Series Single-phase AC output SSR



Feature

- 10A,25A,40A
- LED indicator for power on
- Load voltage: 38-480VAC
- With cover
- Dielectric strength 4000VACrms
- Good heat dissipation, copper base plate available
- CE\RoHS

Description

SSR solid state relay is widely used in various industries and suitable for resistive, inductive and capacitive load. Output voltage range: 38-480VAC, output current: 10A, 25A and 40A

Model Coding

| SSR | 10 | D | A | H | C |
|------------|---|---|-----------------------------|-----------------------------|---|
| SSR Series | Load Current 10:10Amps 25:25Amps 40:40Amps | Control Type D:DC Control 3-32VDC | Load Voltage A:AC Output | Load Voltage H:38-480VAC | Thermal Dissipation Non:Aluminium heat sink C:Copper heat sink (Available) |

| Model No. | SSR-10DAH□ | SSR-25DAH□ | SSR-40DAH□ |
|-----------|------------|------------|------------|
|-----------|------------|------------|------------|

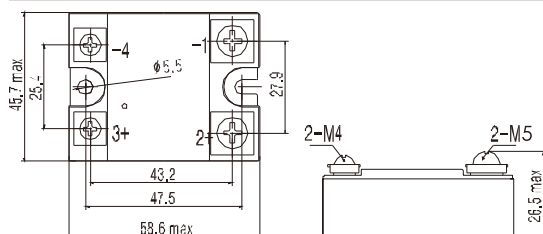
Specification

| Input | | | |
|---|------------|--|----------------|
| Control Voltage Range | | 3-32VDC | |
| Min.Turn-On Voltage | | 3VDC | |
| Min.Turn-Off Voltage | | 1VDC | |
| Max.Inout Current | | 25mA | |
| Output | | | |
| Rated Load Current | | 10A | 25A40A |
| Output Voltage Range | | 38 - 480 VAC | |
| Max.Turn-On Time | Zero cross | 1/2AC Cycle + 1ms | |
| Max.Turn-Off Time | | 1/2AC Cycle + 1ms | |
| Max.Surge Current [@10ms] | | 135A | 275A400A |
| Max.I t for fusing [@10ms] | | 140A² S | 275A² S410A² S |
| Max.Transient Voltage | | 800Vpk | |
| Max. Off-state Leakage Current (at rated voltage) | | 5mA | |
| Max. On-state Voltage Drop.(at rated voltage) | | 1.6Vrms | |
| Min.Off-state Dv/dt | | 200 V/ μs | |
| General | | | |
| Dielectric Strength | | I/P-O/P: 4KVrms I/P-Base: 2.5KVrms O/P-Base: 2.5KVrms | |
| Operating Temperature | | -30℃~+80℃ | |
| Storage Temperature | | -30℃~+100℃ | |
| Weight | | 93g (SSR-□DAH: 146g) | |
| Accessory(Optional) | | | |
| Din-rail mounting accessory | | DIN-01 | |
| Heat Transfer Pad | | SH-D1 | |
| Heat sink(optional) | | SH-01 | SH-03 |
| Remark① | | The ambient temperature and temperature rise need to be considered when using heat sink. If the temperature of heat sink is over 70℃, please use a larger heat sink or forced cooling with a fan | |

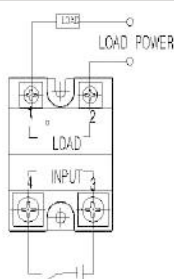
Applications

Suitable for Lenpure, Plastic Machinery, Incubator, Oil Filling Machine, Air Conditioning, Elevator, Lighting, Fountain Controller etc.

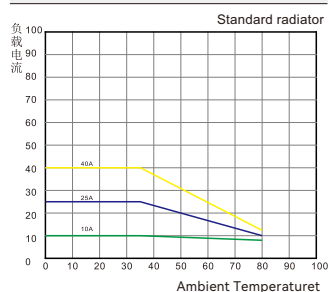
Mounting Dimension



Wiring Diagram



Characteristic Curves



SA Series AC/DC Input, single-phase output SSR



认证号: E500695



Feature

- Load current:10A-90A
- Load voltage: 380VAC,480VAC,600VAC
- DC/AC input available
- Zero cross turn-on/Random turn-on available
- LED indicator for power on
- SCR output,high reliability
- Built-in RC、MOV and TVS protection available
- Dielectric strength 4000VACrms
- Good heat dissipation,DBC base plate available
- UL\CE\RoHS

Description

SA series solid state relays are widely used in various industries and suitable for resistive, inductive and capacitive load. Output voltage range: 48-440VAC, 48-530VAC, 48-660VAC. Output current: 10A, 25A, 40A, 50A, 75A and 90A.

Model Coding

| SA | 25 | D | 3 | Z | M |
|-----------|--|--|---|---|--|
| SA Series | Load Current 10:10Amps 25:25Amps 40:40Amps 50:50Amps 75:75Amps 90:90Amps | Control Type D:DC Control 4-32VDC A:AC Control 90-280VAC | Load Voltage 3:48-440VAC 4:48-530VAC 6:48-660VAC | Zero cross function Z:Zero cross turn-on R:Random turn-on | Protection Non:without M:MOV protection T:TVS protection (Available) |

| Model No. | SA-10□3□□ | SA-25□3□□ | SA-40□3□□ | SA-50□3□□ | SA-75□3□□ | SA-90□3□□ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | SA-10□4□□ | SA-25□4□□ | SA-40□4□□ | SA-50□4□□ | SA-75□4□□ | SA-90□4□□ |
| | SA-10□6□□ | SA-25□6□□ | SA-40□6□□ | SA-50□6□□ | SA-75□6□□ | SA-90□6□□ |

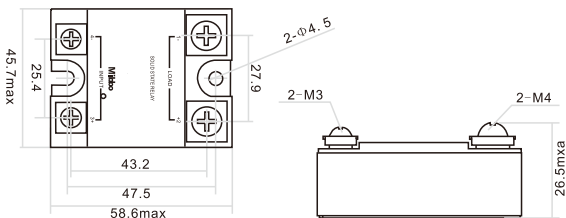
Specification

| Input | |
|---|--|
| Control Voltage Range | 4-32VDC |
| Min.Turn-On Voltage | 4VDC |
| Min.Turn-Off Voltage | 1VDC |
| Max.Inout Current | 25mA |
| Output | |
| Rated Load Current | 10A 25A 40A 50A 75A 90A |
| Output Voltage Range | SA-□A3 : 48-440VAC / SA-□A4 : 48-530VAC / SA-□A6 : 48-660VAC |
| Max.Turn-On Time | Random |
| | Zero cross |
| Max.Turn-Off Time | 1ms 1/2AC Cycle+1ms 1/2AC Cycle+1ms |
| Max.Surge Current [@10ms] | 150A 400A 440A 860A 1280A 1550A |
| Max.I t for fusing [@10ms] | 350A²S 900A²S 970A²S 3698A²S 8192A²S 12012A²S |
| Max.Transient Voltage | SA-□A3 : 800Vpk \ SA-□A4 : 1200Vpk \ SA-□A6 : 1600Vpk |
| Max. Off-state Leakage Current (at rated voltage) | 5mA |
| Max. On-state Voltage Drop.(at rated voltage) | 1.6Vrms |
| Min.Off-state Dv/dt | 500 V/ μs |
| General | |
| Dielectric Strength | Input to output: 4KVrms Input to base: 4KVrms output to base: 2.5KVrms |
| Operating Temperature | -30℃~+80℃ |
| Storage Temperature | -30℃~+100℃ |
| Weight | 88g |
| Accessory(Optional) | |
| Din-rail mounting accessory | DIN-01 DIN-01 |
| Heat Transfer Pad | SH-D1 |
| Protective Cover | SP-D11 |
| Heat sink(optional) | SH-01 SH-01 SH-03 SH-05 SH-07 SH-08 |
| Remark① | The ambient temperature and temperature rise need to be considered when using heat sink. If the temperature of heat sink is over 70℃, please use a larger heat sink or forced cooling with a fan |

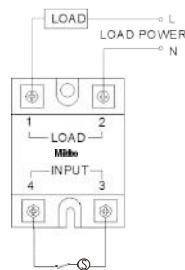
Applications

Suitable for Lenpure, Plastic Machinery, Incubator, Oil Filling Machine, Air Conditioning, Elevator, Lighting, Fountain Controller etc.

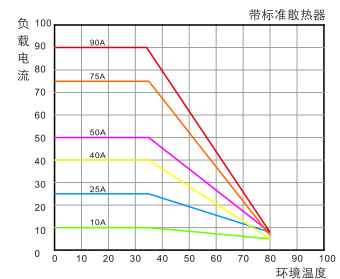
Mounting Dimension



Wiring Diagram



Characteristic Curves



SAE Series Miniature single-phase AC output SSR



Feature

- 10A,15A,25A
- LED indicator for power on
- Load voltage: 38-440VAC
- Triac output,Built-in RC protection
- With cover
- Dielectric strength 4000VACrms
- Small in size,save space
- CE\RoHS

Description

SAE series solid state relays are mini size and triac structure and widely used in various industries and suitable for resistive, inductive and capacitive load. Output voltage range: 48-440VAC. Output current: 10A, 15A, 25A.

Model Coding

| | | | | |
|------------|---|---|-----------------------------|---|
| SAE | 10 | D | 3 | R |
| SAE Series | Load Current 10:10Amps 15:15Amps 25:25Amps | Control Type D:DC Control 4-32VDC | Load Voltage 3:48-440VAC | Zero cross function Z:Zero cross turn-on R:Random turn-on |

| | | | |
|-----------|-----------|-----------|-----------|
| Model No. | SAE-10D3□ | SAE-15D3□ | SAE-25D3□ |
|-----------|-----------|-----------|-----------|

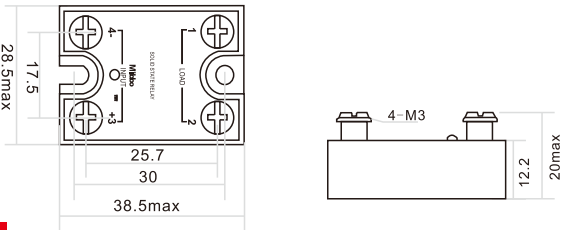
Specification

| | | | |
|--|------------|--|---|
| Input | | | |
| Control Voltage Range | | 4-32VDC | |
| Min.Turn-On Voltage | | 4VDC | |
| Min.Turn-Off Voltage | | 1VDC | |
| Max.Inout Current | | 25mA | |
| Output | | | |
| Rated Load Current | | 10A | 15A25A |
| Output Voltage Range | | 48-440VAC | |
| Max.Turn-On Time | Random | 1ms | |
| | Zero cross | 1/2AC Cycle + 1ms | |
| Max.Turn-Off Time | | 1/2AC Cycle + 1ms | |
| Max.surge current | | 100A | 160A250A |
| Max.Transient Voltage | | 800Vpk | |
| Max.Off-state Leakage Current (at rated voltage) | | 5mA | |
| Max. On-state Voltage Drop.(at rated voltage) | | 1.6Vrms | |
| Min.Off-state Dv/dt | | 200 V/ μs | |
| General | | | |
| Dielectric Strength | | Input to output: 4KVrms | Input to base: 4KVrms output to base: 2.5KVrms |
| Operating Temperature | | -30℃~+80℃ | |
| Storage Temperature | | -30℃~+100℃ | |
| Weight | | 35g | |
| Accessory(Optional) | | | |
| Protective Cover | | SP-D12 | |
| Heat sink(optional) | | SH-01 | |
| Remark① | | The ambient temperature and temperature rise need to be considered when using heat sink. If the temperature of heat sink is over 70℃, please use a larger heat sink or forced cooling with a fan | |

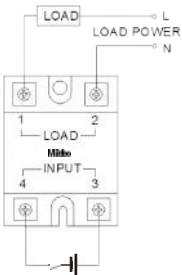
Applications

Suitable for Lenpure, Plastic Machinery, Incubator, Oil Filling Machine, Air Conditioning, Elevator, Lighting, Fountain Controller etc.

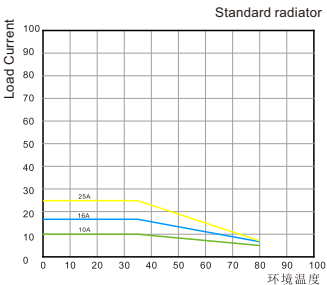
Mounting Dimension



Wiring Diagram



Characteristic Curves





Feature

- Load current: 7-80A
- DC control: 4-32VDC
- Load voltage: 50VDC, 100VDC, 400VDC, 1200VDC
- LED indicator for power on
- Dielectric strength 4000VACrms
- CE/RoHS

Description

SD series solid state relays are panel mounted and DC output. Input voltage range: 4-32VDC. There is opto-electric isolation between the input and output and the dielectric strength is 4000VAC

Model Coding

| SD | 25 | D | 50 |
|-----------|---|---|---|
| SD Series | Load Current 7:7Amps 10:10Amps 20:20Amps 25:25Amps 40:40Amps 50:50Amps 80:80Amps | Control Type D:DC Control 4-32VDC | Load Voltage 50:0-50VDC 1H:0-100VDC 4H:0-400VDC 1K:10-1200VDC |

| Model No. | SD-7D50 | SD-10D1H | SD-20D1H | SD-25D50 | SD-40D1H | SD-50D50 | SD-80D50 |
|-----------|---------|----------|----------|----------|----------|----------|----------|
| | SD-7D4H | SD-20D4H | SD-25D1K | SD-40D1K | SD-50D1K | SD-80D1H | |

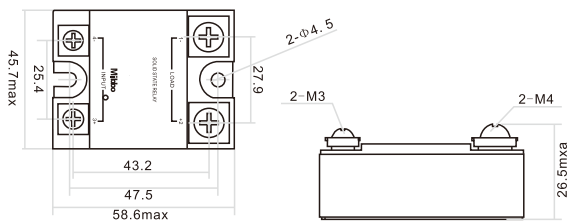
Specification

| Input | | | | | | | |
|--|--|-----|-----|-----|-------|-------|-------|
| Control Voltage Range | 4-32VDC | | | | | | |
| Min.Turn-On Voltage | 4DC | | | | | | |
| Min.Turn-Off Voltage | 1VDC | | | | | | |
| Max.Inout Current | 28 mA @32VDC | | | | | | |
| Output | | | | | | | |
| Rated Load Current | 7A | 10A | 20A | 25A | 40A | 50A | 80A |
| Output Voltage Range | SD-□D50:0-50VDC; SD-□D1H:0-100VDC;SD-□D4H:10-400VDC; SD-□D1K:10-1200VDC; | | | | | | |
| Max.surge current(@10mā) | SD-25D50:75A; SD-50D50:125A; SD-20D1H:80A; SD-40D1H:120A; SD-80D1H:200A; SD-25D1K:75A; SD-50D1K: 100A | | | | | | |
| Max.Turn-On Time | 100 μs | | | | | | |
| Max.Turn-Off Time | 500 μs | | | | | | |
| Max.Off-state Leakage Current (at rated voltage) | 0.1mA | | | | | | |
| Max. On-state Voltage Drop.(at rated voltage) | 1.5VDC | | | | | | |
| General | | | | | | | |
| Dielectric Strength | Input-output: 4KVrms Input-base: 4KVrms output-base: 2.5KVrms | | | | | | |
| Operating Temperature | -30℃~+80℃ | | | | | | |
| Storage Temperature | -30℃~+100℃ | | | | | | |
| Weight | 80g | | | | | | |
| Accessory(Optional) | | | | | | | |
| Din-rail mounting accessory | DIN-01 | | | | | | |
| Heat Transfer Pad | SH-D1 | | | | | | |
| Protective Cover | SP-D11 | | | | | | |
| Heat sink(optional) | SH-01 | | | | SH-03 | SH-05 | SH-08 |
| Remark① | The ambient temperature and temperature rise need to be considered when using heat sink. If the temperature of heat sink is over 70℃, please use a larger heat sink or forced cooling with a fan | | | | | | |

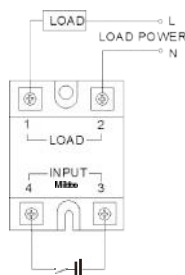
Applications

Dc heating, DC power supply, DC valve, DC motor, Solar Energy, etc.

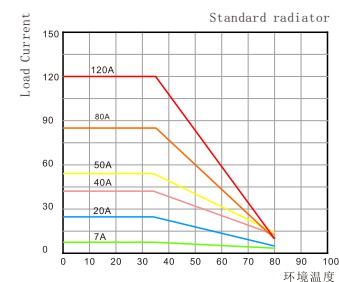
Mounting Dimension



Wiring Diagram



Characteristic Curves



SAT Series Three-phase AC Output SSR



Feature

- Load current: 25A,40A,60A
- Load voltage: 380VAC,480VAC
- Zero cross turn-on/Random turn-on available
- AC or DC input
- SCR output
- Built-in RC、MOV protection available
- Lost phase protection customizable
- CE\RoHS

Description

SAT is a three-phase AC output relay(Normally Open), offer (4~32)VDC/(90-280) VAC input voltage control,with outputs current at 25A,40A,60A, and (48~440)VAC, (48~530)VACoutput voltage. The output device is SCR,output.switching modes are divided into zero cross turn-on type and random turn-on type.

Model Coding

| SAT | 25 | D | 3 | Z | M |
|------------|---|--|--|---|--|
| SAT Series | Load Current 25:25Amps 40:40Amps 60:60Amps | Control Type D:DC Control 4~32VDC A:AC Control 90~280VAC | Load Voltage 3:48~440VAC 4:48~530VAC | Zero cross function Z:Zero cross turn-on R:Random turn-on | Protection Non:without M:MOV protection (Available) |

| Model No. | SAT-25D3□□ | SAT-40D3□□ | SAT-60D3□□ | SAT-25A3□□ | SAT-40A3□□ | SAT-60A3□□ |
|-----------|------------|------------|------------|------------|------------|------------|
| | SAT-25D4□□ | SAT-40D4□□ | SAT-60D4□□ | SAT-25A4□□ | SAT-40A4□□ | SAT-60A4□□ |

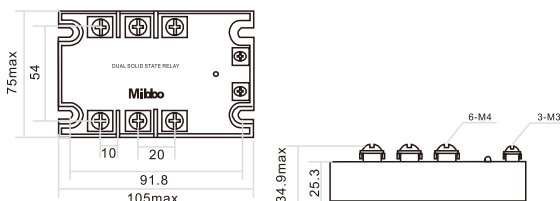
Specification

| Input | | | | | | |
|--|------------|--|-------|-------|-----------------------|-------------|
| Control Voltage Range | | 4-32VDC | | | 90-280VAC | |
| Min.Turn-On Voltage | | 4VDC | | | 90VAC | |
| Min.Turn-Off Voltage | | 1VDC | | | 10VAC | |
| Max.Inout Current | | 28 mA @32VDC | | | 10 mA@280VAC | |
| Output | | | | | | |
| Rated Load Current | | 25A | 40A | 60A | 25A | 40A 60A |
| Output Voltage Range | | SAT-□D/A3 : 48-440VAC | | | SAT-□D/A4 : 48-530VAC | |
| Max.Transient Voltage | | SAT-□D/A3:800Vpk | | | SAT-□D/A4 : 1200Vpk | |
| Max.Turn-On Time | Random | 1ms | | | 20ms | |
| | Zero cross | 1/2AC Cycle + 1ms | | | 20ms | |
| Max.Turn-Off Time | | 1/2AC Cycle + 1ms | | | 40ms | |
| Max.Off-state Leakage Current (at rated voltage) | | 5mA | | | 5mA | |
| Max. On-state Voltage Drop.(at rated voltage) | | 1.6Vrms | | | 1.6Vrms | |
| Min. Off-state Dv/dt | | 500 V/ μs | | | 500 V/ μs | |
| General | | | | | | |
| Dielectric Strength | | Input to output: 4KVrms Input to base: 2.5KVrms output to base: 2.5KVrms | | | | |
| Operating Temperature | | -30℃~+80℃ | | | | |
| Storage Temperature | | -30℃~+100℃ | | | | |
| Weight | | 350g | | | | |
| Accessory(Optional) | | | | | | |
| Heat Transfer Pad | | SH-D2 | | | | |
| Protective Cover | | SP-D31 | | | | |
| Heat sink(optional) | | SH-03 | SH-07 | SH-08 | SH-03 | SH-07 SH-08 |
| Remark① | | The ambient temperature and temperature rise need to be considered when using heat sink. If the temperature of heat sink is over 70℃, please use a larger heat sink or forced cooling with a fan | | | | |

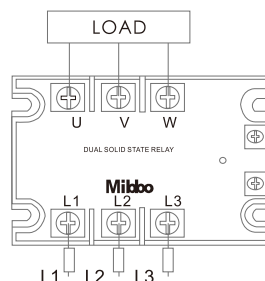
Applications

Three-phase Motor Control, Furnace Temperature Control System, Large Oven etc.

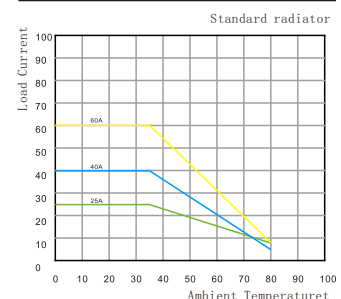
Mounting Dimension



Wiring Diagram



Characteristic Curves



SAMS Series Three-phase Motor FDW-REV Control Module SSR



Feature

- Load current: 25A, 40A, 60A
- Load voltage: 380VAC, 480VAC
- Three phase two control or three phase three control type available
- DC control: 4-32VDC
- Built-in RC, MOV protection available
- CE\RoHS

Description

SAT series is 3-phase AC output solid state relay. SCR output. Zero cross or random turn-on available. Control voltage: 4-32VDC/90-280VAC. Output rated voltage: 48-440VAC/48-530VAC. Output rated current: 25A/40A/60A.

Model Coding

SAMS

SAMS Series

25

Load Current

D

Control Type

D:DC Control
10-32VDC

3

Load Voltage

3:48-440VAC
4:48-530VAC

F

F:Three-phase and three control
Non:Three-phase and two control
(Available)

| Model No. | SAMS-25D3□ | SAMS-40D3□ | SAMS-60D3□ |
|-----------|------------|------------|------------|
| | SAMS-25D4□ | SAMS-40D4□ | SAMS-60D4□ |

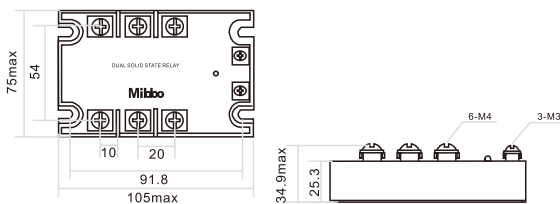
Specification

| Input | | | |
|--|---|----------------------|-----------------------|
| Control Voltage Range | 10-32VDC | | |
| Min.Turn-On Voltage | 10VDC | | |
| Min.Turn-Off Voltage | 1VDC | | |
| Max.Inout Current | 35mA | | |
| Min Toggle interval | 80ms | | |
| Output | | | |
| Rated Load Current | 25A | 40A | 60A |
| Output Voltage Range | SAMS-□D3□:48-440VAC / SAMS-□D4□:48-530VAC | | |
| Max.Transient Voltage | SAMS-□D3□:800Vpk / SAMS-□D4□:1200Vpk | | |
| Min.Load Current | 100mA | | |
| Max.Turn-Off Time | 1/2AC Cycle + 1ms | | |
| Max.Surge Current(@10ms) | 250A | 400A | 800A |
| Max.Off-state Leakage Current (at rated voltage) | 5mA | | |
| Max. On-state Voltage Drop.(at rated voltage) | 1.6Vrms | | |
| Min.Off-state Dv/dt | 500V/μs | | |
| General | | | |
| Dielectric Strength | Input-output: 4KVrms | Input-base: 2.5KVrms | output-base: 2.5KVrms |
| Operating Temperature | -30℃~+80℃ | | |
| Storage Temperature | -30℃~+100℃ | | |
| Weight | 340g | | |
| Operating status indication | Green: forward Red:reversal | | |
| Accessory(Optional) | | | |
| Heat Transfer Pad | SH-D2 | | |
| Protective Cover | SP-D31 | | |
| Heat sink(optional) | SH-03 | SH-07 | SH-08 |
| Remark① | The ambient temperature and temperature rise need to be considered when using heat sink. If the temperature of heat sink is over 70℃, please use a larger heat sink or forced cooling with a fan. | | |

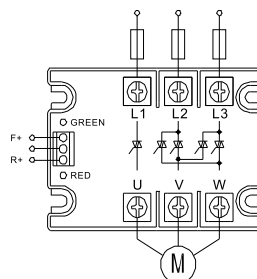
Applications

Three-phase motor reversing control, such as electric actuator control, the transformer has load regulating device, etc.

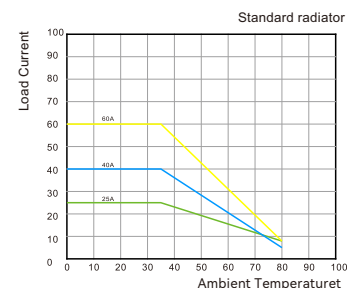
Mounting Dimension



Wiring Diagram



Characteristic Curves



ST Series Din-rail single-phase AC output



Feature

- Load current: 10A,20A,30A,40A
- Load voltage: 220VAC,380VAC,480VAC
- DC or AC input
- LED indicator for power on
- SCR output,high reliability
- Built-in RC protection
- Dielectric strength 4000VACrms
- Din-rail mouting,asemble on industrial rail TS-35 / 7.5 or 15

Description

ST series are heat sink integrated solid state relays. TS-35/7.5/15 Din-rail mounting or screw panel mounting

Model Coding

| ST | 20 | D | 3 | 3 | 3 |
|-----------|--|--|---|--|-----------------------------|
| ST Series | Load Current | Control Type | Load Voltage | Zero cross function | Input Termination |
| | 10:10Amps 20:20Amps 30:30Amps 40:40Amps | D:4-32VDC LA:90-140VAC HA:180-280VAC E:AC/DC24V | 2:48-280VAC 3:48-440VAC 4:48-530VAC | Z:Zero cross turn-on R:Random turn-on | B:ScrewType S:SpringType |

| | | | | | | | | |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|-----------|
| Model No. | ST-10D2□□ | ST-10D4□□ | ST-10LA2□□ | ST-10LA4□□ | ST-10HA2□□ | ST-10HA4□□ | ST-10E2□□ | ST-10E4□□ |
| | ST-20D2□□ | ST-20D4□□ | ST-20LA2□□ | ST-20LA4□□ | ST-20HA2□□ | ST-20HA4□□ | ST-20E2□□ | ST-20E4□□ |
| | ST-30D2□□ | ST-30D4□□ | ST-30LA2□□ | ST-30LA4□□ | ST-30HA2□□ | ST-30HA4□□ | ST-30E2□□ | ST-30E4□□ |
| | ST-40D2□□ | ST-40D4□□ | ST-40LA2□□ | ST-40LA4□□ | ST-40HA2□□ | ST-40HA4□□ | ST-40E2□□ | ST-40E4□□ |
| | ST-10D3□□ | ST-10D6□□ | ST-10LA3□□ | ST-10LA6□□ | ST-10HA3□□ | ST-10HA6□□ | ST-10E3□□ | ST-10E6□□ |
| | ST-20D3□□ | ST-20D6□□ | ST-20LA3□□ | ST-20LA6□□ | ST-20HA3□□ | ST-20HA6□□ | ST-20E3□□ | ST-20E6□□ |
| | ST-30D3□□ | ST-30D6□□ | ST-30LA3□□ | ST-30LA6□□ | ST-30HA3□□ | ST-30HA6□□ | ST-30E3□□ | ST-30E6□□ |
| | ST-40D3□□ | ST-40D6□□ | ST-40LA3□□ | ST-40LA6□□ | ST-40HA3□□ | ST-40HA6□□ | ST-40E3□□ | ST-40E6□□ |

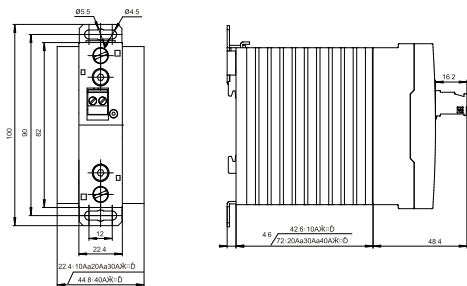
Specification

| Input | | | | | | | | | | | | | |
|--|------------|--|--------|--------|---------|--------------------|--------|--------|------------|-----------|--------|--------------------|---------|
| Control Voltage Range | | 4-32VDC | | | | 90-140VDC | | | 180-280VDC | | | 19. 2-28. 8VDC/VAC | |
| Min.Turn-On Voltage | | 4VDC | | | | 90VAC | | | 180VAC | | | 19. 2VDC/VAC | |
| Min.Turn-Off Voltage | | 1VDC | | | | 10VAC | | | 10VAC | | | 2VDC/VAC | |
| Max.Inout Current | | 25 mA | | | | | | | | | | | |
| Output | | | | | | | | | | | | | |
| Rated Load Current | | 10A | 20A | 30A | 40A | 10A | 20A | 30A | 40A | 10A | 20A | 30A | 40A |
| Output Voltage Range | | 48-280VAC | | | | 48-440VAC | | | | 48-530VAC | | | |
| Max.Transient Voltage | | 600VPK | | | | 800VPK | | | | 1200VPK | | | |
| Max.Turn-On Time | Random | 1ms(DC control) | | | | 400ms (AC control) | | | | | | | |
| | Zero cross | 1/2AC Cycle + 1ms (DC control) | | | | | | | | | | | |
| Max.Turn-Off Time | | 1/2AC Cycle + 1ms (DC control) | | | | | | | | | | | |
| Max.Surge Current [@10ms] | | 160Apk | 500Apk | 700Apk | 1000Apk | 160Apk | 500Apk | 700Apk | 1000Apk | 160Apk | 500Apk | 700Apk | 1000Apk |
| Max.I t for fusing [@10ms] | | 128 | 1250 | 2450 | 5000 | 128 | 1250 | 2450 | 5000 | 128 | 1250 | 2450 | 5000 |
| Max.Off-state Leakage Current (at rated voltage) | | 5mA | | | | | | | | | | | |
| Max. On-state Voltage Drop.(at rated voltage) | | 1. 7Vr. m. s | | | | | | | | | | | |
| Min.Off-state Dv/dt | | 500 V/ μs | | | | | | | | | | | |
| General | | | | | | | | | | | | | |
| Dielectric Strength | | Input to output: 4KVrms Input to base: 2.5KVrms output to base: 2.5KVrms | | | | | | | | | | | |
| Operating Temperature | | -30℃ ~+80℃ | | | | | | | | | | | |
| Storage Temperature | | -30℃ ~+100℃ | | | | | | | | | | | |
| Weight | | 约170g (10A) 约240g (20A、30A) 约400g (40A) | | | | | | | | | | | |
| Remark① | | The ambient temperature and temperature rise need to be considered when using heat sink. If the temperature of heat sink is over 70℃, please use a larger heat sink or forced cooling with a fan | | | | | | | | | | | |

Applications

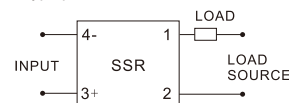
Plastic machinery, electric injection molding machines, packaging machines, various industrial heating occasions.

Mounting Dimension

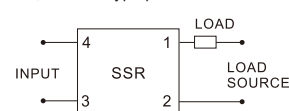


Wiring Diagram

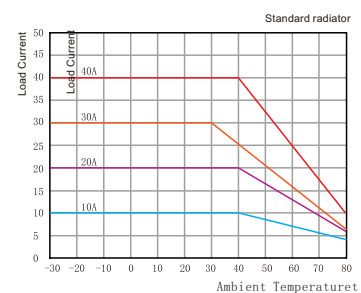
D type product



LA, HA and Etype product



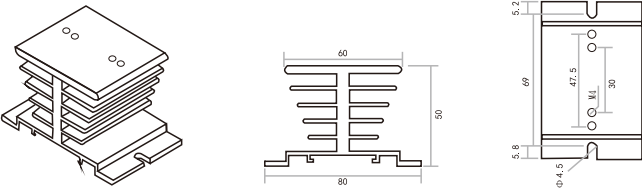
Characteristic Curves



Accessories

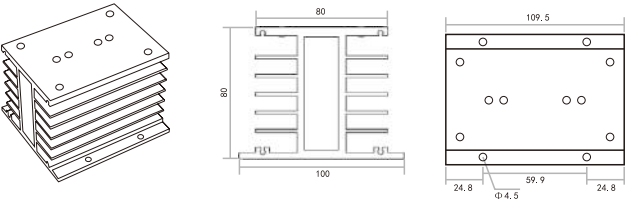
Model No.:SH-01

Weight:110g Thermal Resistance:2.1°C/W



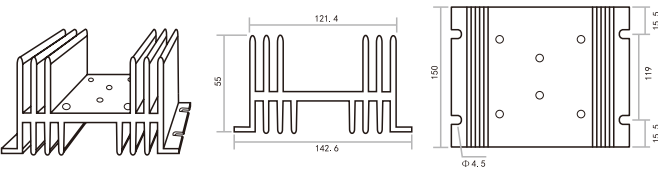
Model No.:SH-03

Weight:570g Thermal Resistance:0.9°C/W

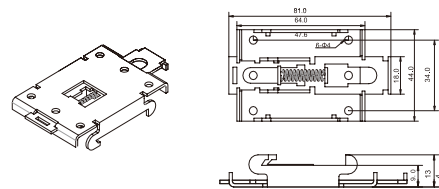


Model No.:SH-05

Weight:590g Thermal Resistance:0.6°C/W



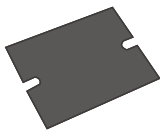
Model No.:DIN-01



Heat Transfer Pad

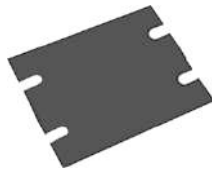
Model No.:SH-D1

Thermal Resistance:0.48°C/25W



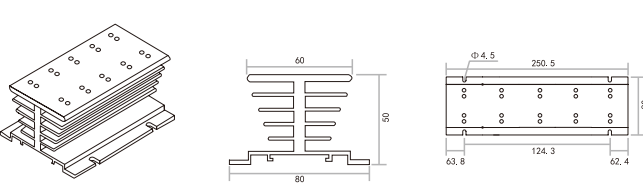
Model No.:SH-D2

Thermal Resistance:0.48°C/25W



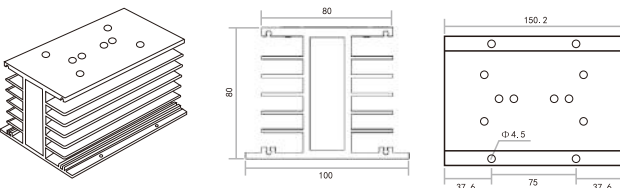
Model No.:SH-06

Weight:600g Thermal Resistance:0.8°C/W



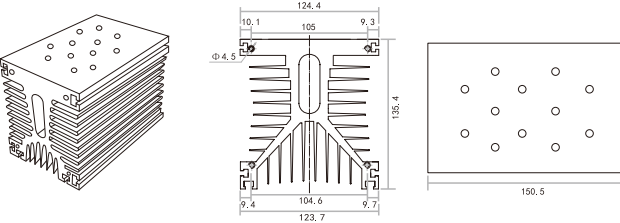
Model No.:SH-07

Weight:780g Thermal Resistance:0.45°C/W



Model No.:SH-08

Weight:2980g Thermal Resistance:0.3°C/W



PROTECTIVE COVER

Model No.:SP-D11



Model No.:SP-D12



Model No.:SP-D31





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