## Product Description

- MOSFET Output
- Low Impedance
- Panel Mounted
- LED Indicator
- RoHS Compliant




## Product Selection

| KSJR | 30 | D | 40 | -24 | (XXX) |
|---|---|---|---|---|---|
| KSJR Series | Load Voltage<br>30:9~28.8VDC<br>60:9~60VDC | Control Mode<br>D: DC Control | Load Current<br>40: 40Amp<br>60: 60Amp<br>75: 75Amp | Control Voltage<br>24: 9.6~28.8VDC | Customized Code |

## Technical Specifications

| Input Specifications (Ta=25°C) | | |
|---|---|---|
| Control Voltage Range | | 9.6~28.8VDC |
| Must Turn-on Voltage | | 9.6VDC |
| Must Turn-off Voltage | | 2VDC |
| Maximum Input Current | | 15mA |
| Maximum Reverse Voltage | | -24DC |

| Output Specifications (Ta=25°C) | | |
|---|---|---|
| Load Voltage Range | 30VDC | 9~28.8VDC |
| | 60VDC | 9~60VDC |
| Load Current Range | 40A | 0.002 - 40A |
| | 60A | 0.002 - 60A |
| | 75A | 0.002 - 75A |
| Maximum Surge Current (@10ms) | 40A | 120A |
| | 60A | 180A |
| | 75A | 225A |
| Maximum Transient Voltage | 30VDC | 30VDC |
| | 60VDC | 60VDC |
| Maximum On Resistance | | 3mΩ Max.( @TA=25°C) |
| Maximum Turn-on Time | | 5ms |
| Maximum Turn-off Time | | 10ms |
| Maximum Off-State Leakage Current (@Rated Load Voltage) | | 0.1mA |

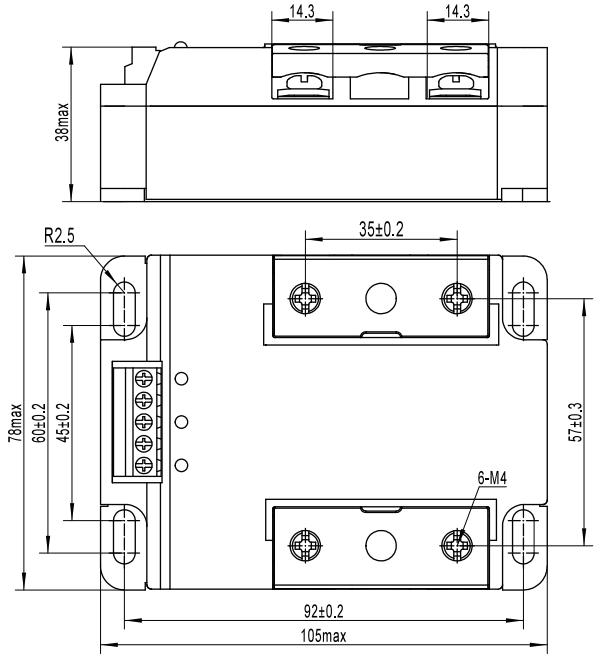
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| General Specifications (Ta=25℃) | | |
|---|---|---|
| Dielectric Strength (50/60Hz) | Input, Output/Base | 2000Vrms |
| Minimum Insulation Resistance（@500VDC） | | 1000MΩ |
| Operating Temperature Range | | -30℃～+80℃ |
| Storage Temperature Range | | -30℃～+100℃ |
| Weight (Typical) | | 360g |
| LED Indicator | Green | Forward |
| | Red | Reverse |

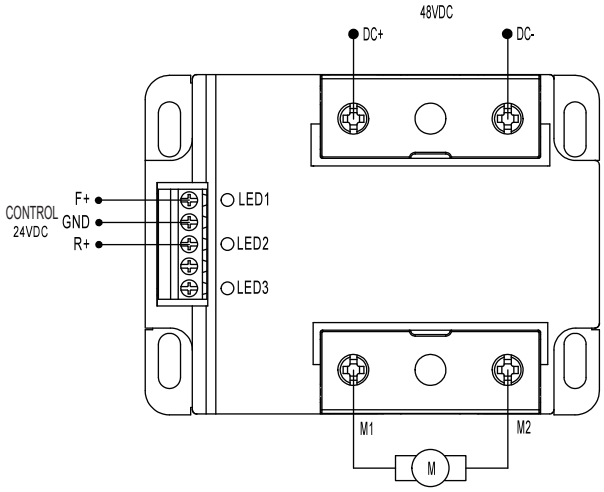
## Applications

Suitable for DC motors.

## Outline Dimensions



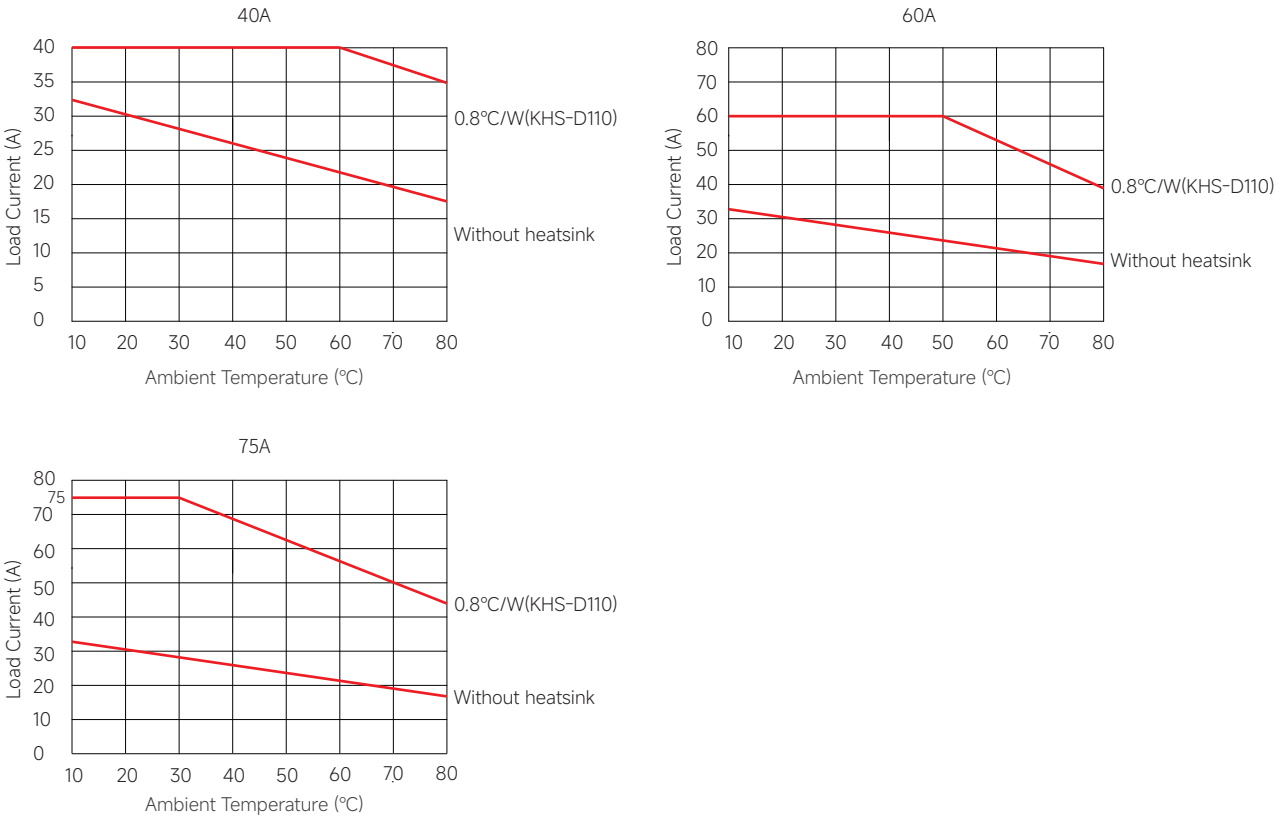

## Wiring Diagram





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## Thermal Derating Curve




Note: When the product is operated without heatsink according to the thermal derating curve shown on the datasheet, it is recommended to install the product on a metal plate for better heat dissipation.

## General Notes

1. Relay must be mounted to proper sized heat sink based on thermal curves. Thermal grease or a thermal pad must be used between the relay and the heat sink.
2. 2. When connecting wiring to SSR please ensure screws are torqued down properly. Recommended torque for input screw is 4.43/(0.2-0.5) in-lb/N·m, output screw is (12-18)/(1.37-2.0) in-lb/N·m.
3. When the operation temperature is above 25°C, please consider the derating as per the Thermal Derating Curve.
4. Please ensure reliable grounding when using the SSR.
5. Control polarity must be observed. Otherwise, it may cause damage to the relay.

## ! Warnings

1. The product may be hot, allow the product to cool before touching.
2. Disconnect all power before installing or working with this equipment.
3. Verify all connections and replace all covers before turning on power.


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