

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

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

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

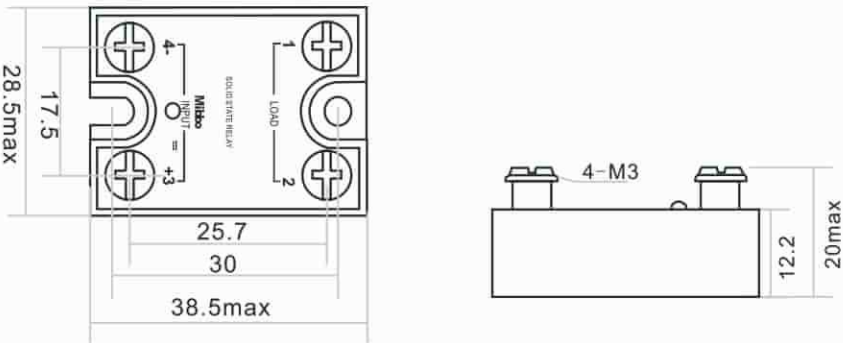
Specification

|                                                  |            |                                                                                                                                                                                                  |                                                 |
|--------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 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 |                                                 |

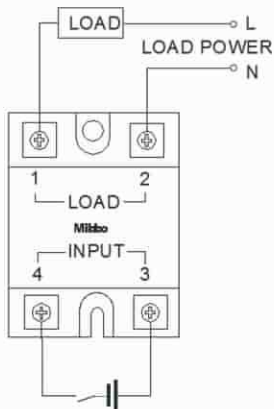
Applications

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

Mounting Dimension



Wiring Diagram



Characteristic Curves

