

SSN/SSJ SERIES

Single Phase Solid State Relay






SSN Series



SSJ Series

SSN Series




 c-UL Recognized
 CE Mark (Pending)
 TUV Recognized (Pending)


 RoHS compliant

SSJ Series




 c-UL Recognized
 CE Mark
 VDE Recognized (Pending)


 RoHS compliant

SSN SERIES

15A
25A
40A

UL, c-UL Recognized
CE Mark (Pending)
TUV Recognized (Pending)

RoHS compliant

DIN rail mounting type SSR

Slim Housing

Slim width of 21.5mm for 15 and 25A types.
(40A type: Width 41mm)
Requires less than half the mounting space compared to standard SSRs.



<Close mounting 8 SSRs>
* Maximum load current will vary depending on number of close mounted units.

Specifications

Maximum Load Current	15A AC, 25A AC, 45A AC
Minimum Load Current	SSN-15F/25F : 100mA AC, SSN-45F : 500mA AC
Peak 1 Cycle Surge Current	SSN-15F : 150A (60Hz) SSN-25F : 250A (60Hz) SSN-45F : 450A (60Hz)
Input Signal	Voltage pulse input (DC), LOW (OFF):0V HIGH (ON):4.5 to 30V
Input Impedance	450 to 3.0kΩ (Built-in constant current circuit 10mA)
Response Time	0.5 cycle or less
Input Protection	Protection of reverse polarity connection
Output Protection	CR protection circuit and Varistor
Output ON Voltage Drop	Less than 1.0V (200V AC)
Load Voltage	60 to 280V AC
Insulation Resistance	More than 100MΩ (500V DC)
Dielectric Strength	2500V AC (one minute)
OFF State Leakage Current	Less than 9mA (240V AC)
Induration Method	Phototriac
Net Weight	SSN-15F/25F : Approx. 220g SSN-45F : Approx. 390g



Easily mounted on a DIN-rail.
Compact in size, even with a heatsink.

SSJ SERIES

15A
25A
45A

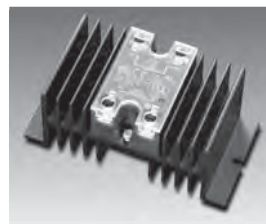
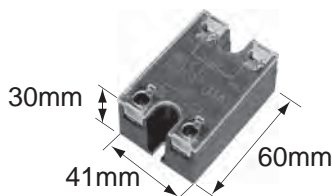
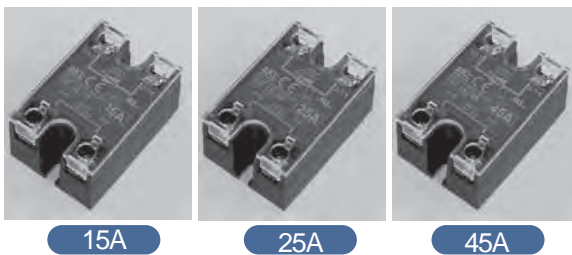
UL, c-UL Recognized
CE Mark
VDE Recognized

RoHS compliant

Screw Mount SSR

Cost Performance

Economical series.
Available as 15/25/45A in the same dimension.



* Main unit is supplied with a heatsink.
(Heatsink for 15A)

Specifications

Maximum Load Current	15A, 25A, 45A AC
Minimum Load Current	100mA AC
Peak 1 Cycle Surge Current	15A AC : 150A (60Hz) 25A AC : 225A (60Hz) 45A AC : 440A (60Hz)
Input Signal	Voltage pulse input (DC), LOW(OFF) : 0V HIGH(ON) : 3.5 to 30V
Input Impedance	10mA (Built-in constant current circuit 10mA)
Response Time	0.5 cycle + 1ms
Input Protection	Protection of reverse polarity connection
Output Protection	CR protection circuit and Varistor
Output ON Voltage Drop	Less than 1.5V (200V AC)
Load Voltage	35 to 264V AC
Insulation Resistance	More than 100MΩ (DC500V)
Dielectric Strength	3000V AC (1 minute)
OFF State Leakage Current	Less than 12mA (200V AC)
Induration Method	Phototriac
Net Weight of SSR	Approx. 60g
Net Weight of Heatsink	RF-060 : 165g, RF-120 : 330g, RF-200 : 760g

SSN SERIES



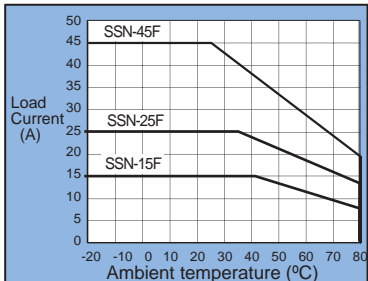
Model Code

● SSN (DIN Rail mounting type SSR)

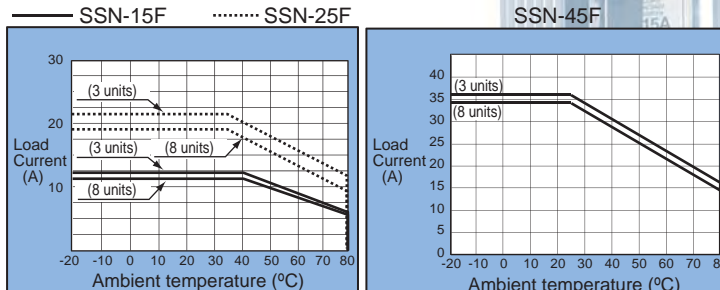
Specifications	Model and Suffix Code	
	SSN - □ F	
Max. Load Current	Max 15A	15
	Max 25A	25
	Max 45A	45
Heatsink	With Heatsink	F

* A main unit comes with a heatsink.

Temperature characteristics of load current



* Temperature characteristics of load current with close horizontal mounting



SSJ SERIES



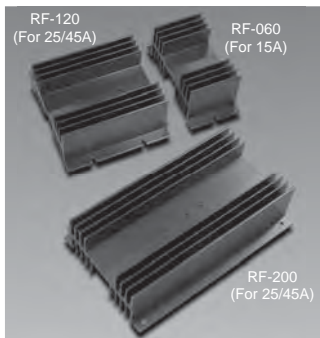
Model Code

● SSJ (Screw Mount SSR)

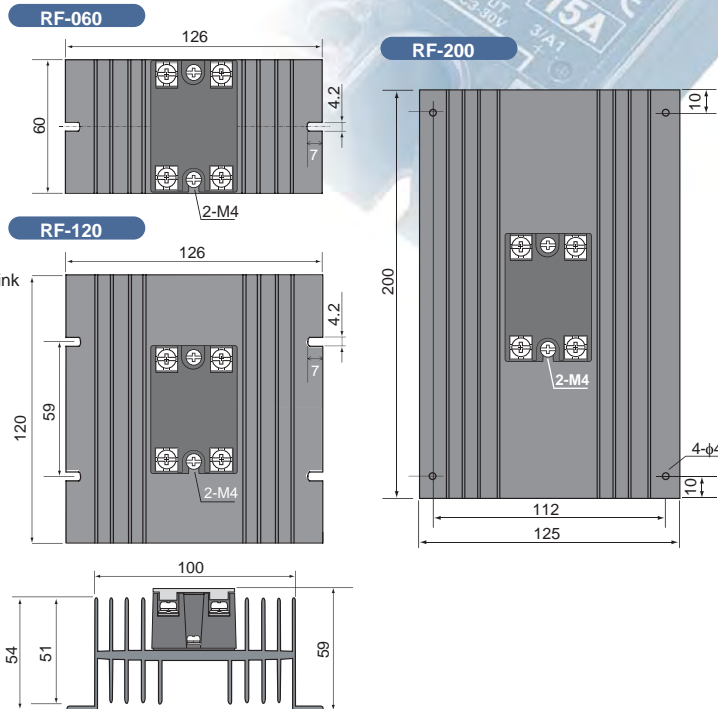
Specifications	Model and Suffix Code	
	SSJ - □	
Max. Load Current	Max 15A	15
	Max 25A	25
	Max 45A	45

Heatsink Mode Code

Heatsink for SSJ-15	RF-060
Heatsink for SSJ-25/SSJ-45	RF-120
	RF-200



* Select RF-120 or RF-200 as a heatsink for SSJ-25 and SSJ-45 based on consideration of the mounting space and the ambient temperature characteristics, as temperature characteristics may change (see the following table).

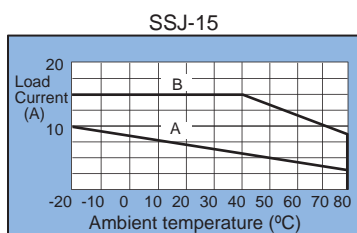


Model code when main unit + heatsink are combined.

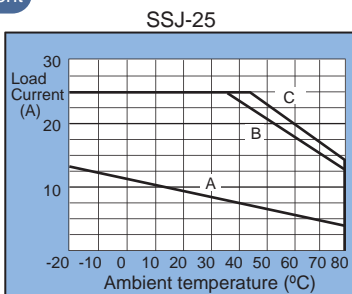
SSJ-15 + RF-060 (Heatsink)	SSJ-15F1
SSJ-25 + RF-120 (Heatsink)	SSJ-25F2
SSJ-25 + RF-200 (Heatsink)	SSJ-25F3
SSJ-45 + RF-120 (Heatsink)	SSJ-45F2
SSJ-45 + RF-200 (Heatsink)	SSJ-45F3

* The device is shipped with a heatsink fitted.

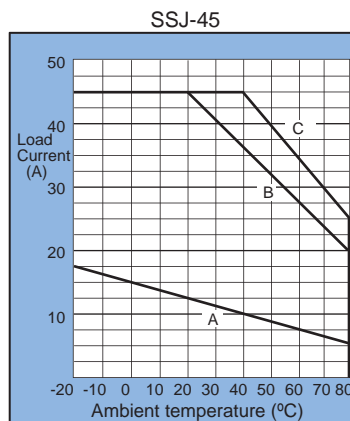
Temperature characteristics of load current



A. Without Heatsink
B. With Heatsink (RF-060)



A. Without Heatsink
B. With Heatsink (RF-120)
C. With Heatsink (RF-200)



A. Without Heatsink
B. With Heatsink (RF-120)
C. With Heatsink (RF-200)

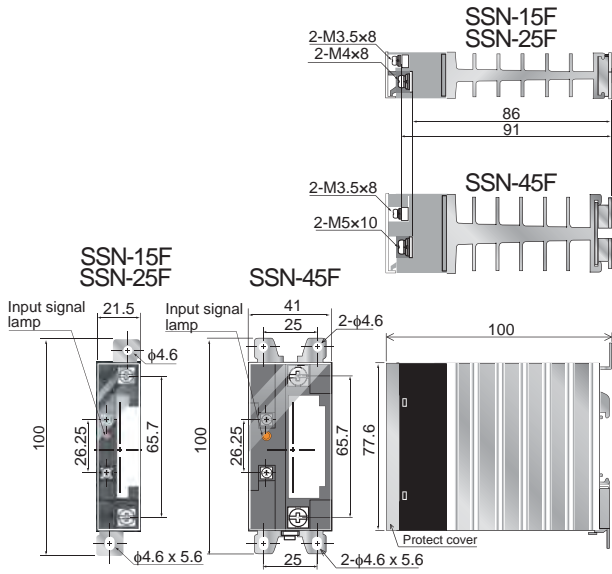
SSN SERIES

DIN Rail Mounting Type SSR



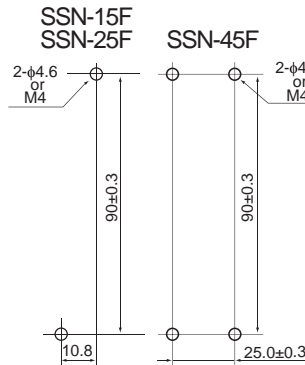
External Dimensions

(Unit:mm)

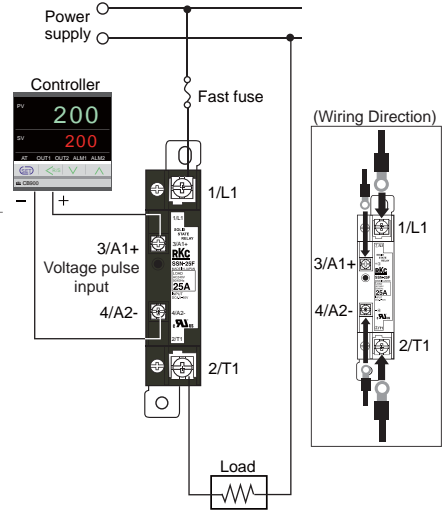


* Same dimension for 15 and 25A types.

● Screw mounting dimensions



External Wiring



External Dimensions

(Unit:mm)

SSJ SERIES

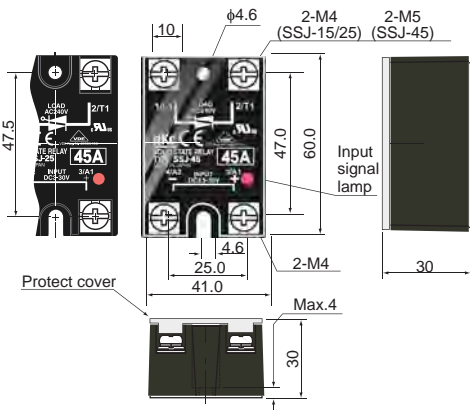
Screw Mount SSR



SSJ-15/SSJ-25/SSJ-45

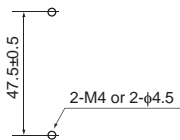
15A 25A 45A

* Same dimension for 15, 25 and 45A types.

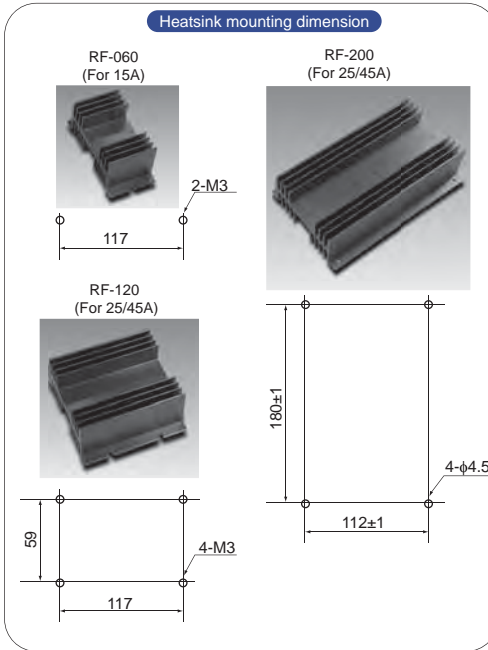


● Screw mounting dimensions

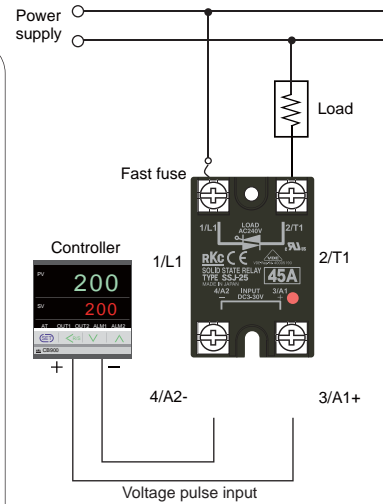
* Without fin



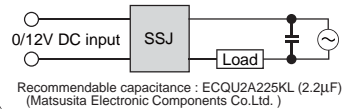
Heatsink mounting dimension



External Wiring



* Conforming to EN55011 (noise terminal voltage) with a capacitor connected as shown below.



Recommendable capacitance : ECQU2A225KL (2.2μF) (Matsushita Electronic Components Co.Ltd.)



• Before operating this product, read the instruction manual carefully to avoid incorrect operation.
 • This product is intended for use with industrial machines, test and measuring equipment. It is not designed for use with medical equipment.
 • If it is possible that an accident may occur as a result of the failure of the product or some other abnormality, an appropriate independent protection device must be installed.

• When installing this product, avoid the following:

- Direct exposure to sunlight.
- Direct contact with water.
- Corrosive environments.
- Hazardous areas containing explosive or flammable gases.
- Vibration or shock.
- Areas subject to electrical noise caused by inductive interference, static electricity or magnetic fields.

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