

Feature

- SA3 Series are power line relays allowing 10 to 300 Amps. switching power, with Voltage ratings from 660Volts A.C. SA3 series is Dual SCR Power Hybrid technology provides highly efficient thermal management for greatly increased cyclic life.
- ▲ High performance/low cost circuit design.
 - ▲ Logic compatible current regulated input.
 - ▲ 2500 Vrms optical isolation.
 - ▲ Both “Zero Voltage” & phase controllable “Random Switching” versions.
 - ▲ LED-indication for control input.
 - ▲ Control voltage range: 3 to 32Vdc or 90~280Vac

Solid State Relay Ordering Guide

S A 3 40 40 D R

JEENDA SSR model Number

A = AC SSR

3=3-Phase solid state relay

Load Voltage: **40** = 40-480VAC ; **66**= 90-660VAC;

Max Current load 10A,15A,25A, 40A, 50A,60A, 80A, 100A, 120A,150A,200A,250A,300A.

D=3-32VDC input ,**A**=90-280VAC input.

NIL=Zero voltage turn on, **R**= Random turn on.

Specifications

INPUT SPECIFICATIONS		D			
Control Voltage Range	Vdc	3 to 32	3 to 32	3 to 32	3 to 32
Input Current (Max.) @=5V/12V	mAdc	33/56	33/56	33/56	33/56
Must Turn On Voltage	Vdc	3	3	3	3
Must Turn Off Voltage	Vdc	1	1	1	1
Reverse Voltage (Max.)	Vdc	32	32	32	32
Display LED		yes	yes	yes	yes

INPUT SPECIFICATIONS		A			
Control Voltage Range	Vac	90 to 280	90 to 280	90 to 280	90 to 280
Input Current (Max.) @=220V	mAac	13	13	13	13
Must Turn On Voltage	Vac	90	90	90	90
Must Turn Off Voltage	Vac	10	10	10	10
Display LED		yes	yes	yes	yes

OUTPUT SPECIFICATIONS					
Load Current Range	Arms	3×10	3×15	3×25	3×40
Surge Current, 20 mSec (Max.)	Arms	200	250	300	400
Load Voltage Range (480V)	Vrms	40 to 480	40 to 480	40 to 480	40 to 480
SCR Over voltage (480V)	Vpk	1200	1200	1200	1200
Load Voltage Range (660V)	Vrms	90 to 660	90 to 660	90 to 660	90 to 660
SCR Over voltage (660V)	Vpk	1600	1600	1600	1600
Frequency Range	Hz	47 to 63	47 to 63	47 to 63	47 to 63
Off-State dv/dt (Min)	V/μsec	500	500	500	500
Max. Off-State Leakage Current	mArms	8	8	8	8
On State Voltage Drop (Max.)	Vrms	1.6	1.6	1.6	1.6
Thermal Resistance, (Rthjc)	°C/W	0.75	0.65	0.55	0.46

Turn On Time (Max.) "Z"	Cycle	1/2	1/2	1/2	1/2
Turn Off Time (Max.)	Cycle	1/2	1/2	1/2	1/2
Turn On Time (Max.) "R"	mSec	1	1	1	1
Turn Off Time (Max.) "A2"	mSec	40	40	40	40

OUTPUT SPECIFICATIONS

Load Current Range	Arms	3×60	3×80	3×100	3×120
Surge Current, 20 mSec (Max.)	Arms	600	1000	1200	1500
Load Voltage Range (480V)	Vrms	40 to 480	40 to 480	40 to 480	40 to 480
SCR Over voltage (480V)	Vpk	1200	1200	1200	1200
Load Voltage Range (660V)	Vrms	90 to 660	90 to 660	90 to 660	90 to 660
SCR Over voltage (660V)	Vpk	1600	1600	1600	1600
Frequency Range	Hz	47 to 63	47 to 63	47 to 63	47 to 63
Off State dv/dt (Min)	V/μsec	500	500	500	500
On State Voltage Drop (Max.)	Vrms	1.8	1.8	1.8	1.8
Thermal Resistance, (Rthjc)	°C/W	0.38	0.34	0.23	0.23
Turn On Time (Max.) "Z"	Cycle	1/2	1/2	1/2	1/2
Turn Off Time (Max.)	Cycle	1/2	1/2	1/2	1/2
Turn On Time (Max.) "R"	mSec	1	1	1	1
Turn Off Time (Max.) "A2"	mSec	40	40	40	40

OUTPUT PARAMETER	Units	Specification Limits			
Model No.		150A	200A	250A	300A
Load Current Range	Arms	3*150	3*200	3*250	3*300
Surge Current, 20 mSec (Max.)	Arms	1800	2100	3200	3800
Load Voltage Range (480V)	Vrms	40 to 480			
TRIAC Over voltage (480V)	Vpk	1200			
Load Voltage Range (660V)	Vrms	90 to 660			
TRIAC Over voltage (660V)	Vpk	1600			
Frequency Range	Hz	47 to 63			
Min. Off-state dv/dt	V/μsec	500			
Off State Leakage Current (Max.)	mArms	10	10	15	20
On-State Voltage Drop (Max.)	Vrms	1.8			
Thermal Resistance, (Rthjc)	/W	0.14	0.09	0.072	0.065
Turn On Time (Max.) "Z"	Cycle	1/2			
Turn On Time (Max.) "R"	mSec	1			
Turn Off Time (Max.)	Cycle	1/2			
Turn Off Time (Max.) "A2"	mSec	40			

COUPLING PARAMETER

Dielectric (Input/Output)	Vrms	2500	2500	2500	2500
Dielectric (Input-Output/Base)	Vrms	2500	2500	2500	2500
Capacitance	pf	10	10	10	10

GENERAL SPECIFICATIONS

Ambient temperature range: operating or Storage -30 to +80°C

Weight: Typical 430g case A. 1200g case B.

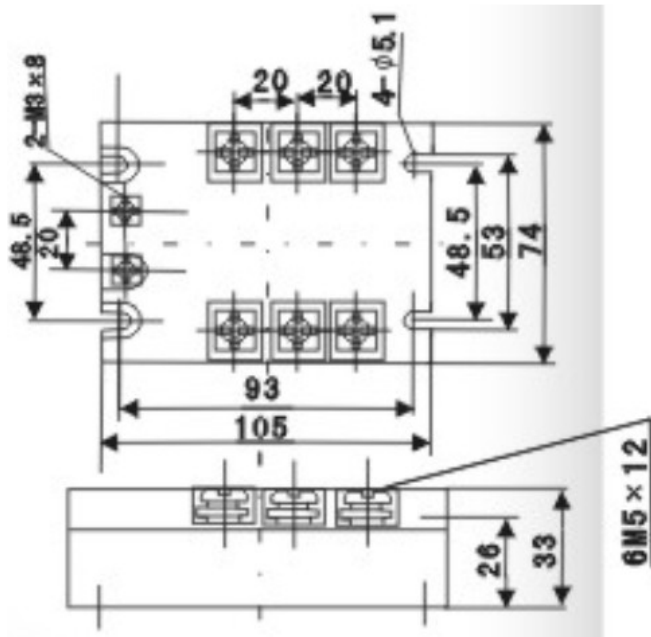
Base plate: Copper, nickel-plated

Case Color: Black

Mounting Dimensions: L×W×H CaseA 105×74×33 mm CaseB 120×83×56 mm

Case and Dimension

Case A for 10-120A



Case for 120-300A

