Feature

SAP Series are power line relays allowing 10 to 120 Amps. switching power, with Voltage ratings from 40 to 660 Volts A.C. SAP 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.
▲ High voltage (1200 Vpk) versions for 480 Vrms service.
▲ LED-indication for control input.
▲ Control voltage range: 4～16 Vdc ,3 to 32 Vdc or 90～280Vac, 18-36VAC.

Solid State Relay Ordering Guide

S	A	P	24	40	D	R

JEENDA SSR model Number

A = AC SSR

P=Horizontal type panel mount SSR

Load Voltage: 24 = 24-240VAC ; 48 = 40-480VAC ; 66 = 40-660VAC;

Max Current load 10A, 25A, 40A, 50A, 60A, 80A, 100A, 120A.

D=3-32VDC input, **A**=90-280VAC input, **A1**=18-36VAC input.

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

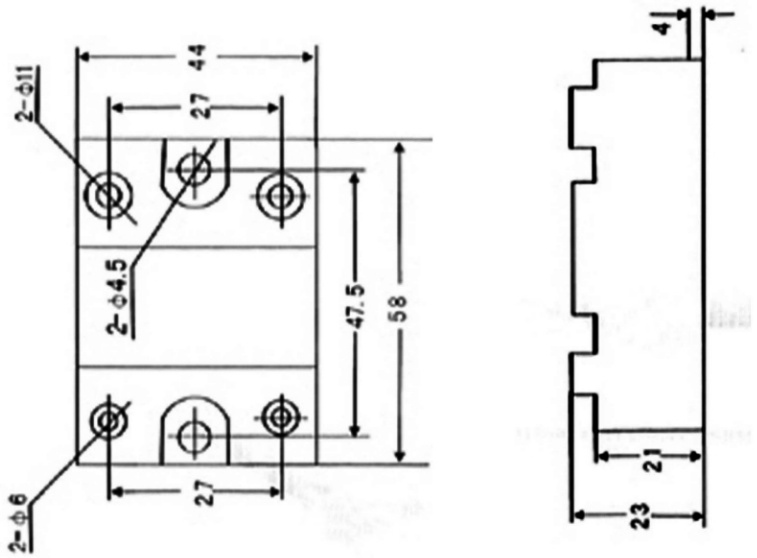
Specifications

Electrical Specification					
Input Parameter ①	**D**		**A**		**A 1**
Control Voltage Range	3 to 32Vdc		9 to 280Vac		18 to 36Vac
Input Current (Max.)	13/16 mAdc @=5V/24V		29 mAac @=220V		24 mAac @=24V
Must Turn On Voltage	3Vdc		90Vac		18Vac
Must Turn Off Voltage	1Vdc		10Vdc		2Vdc
Reverse Voltage (Max.)	32Vdc		/		/
Display LED	Yes		Yes		Yes

Output Parameter	**Units**	**Specification Limits**			
Model No. **SAP**		10A	25A	40A	50A
Load Current Range	Arms	0.05 to 10	0.05 to 25	0.05 to 40	0.05 to 50
Surge Current, 20 mSec (Max.)	Arms	200		300	200
Load Voltage Range (280V)	Vrms		24 to 280		
TRIAC Over voltage (280V)	Vpk				
Load Voltage Range (480V)	Vrms		40 to 660		
TRIAC Over voltage (480V)	Vpk		⩾1200		
Frequency Range	Hz		47 to 63		
Min. Off-state dv/dt	V/μsec		200		
Off State Leakage Current (Max.)	mArms		⩽8		
On-State Voltage Drop (Max.)	Vrms		1.6		
Thermal Resistance, (Rthjc)	℃/W	2.5	2.5	2.5	1.3
Turn On Time (Max.) "Z"	Cycle		1/2		
Turn On Time (Max.) "R"	mSec		1		
Turn Off Time (Max.)	Cycle		1/2		

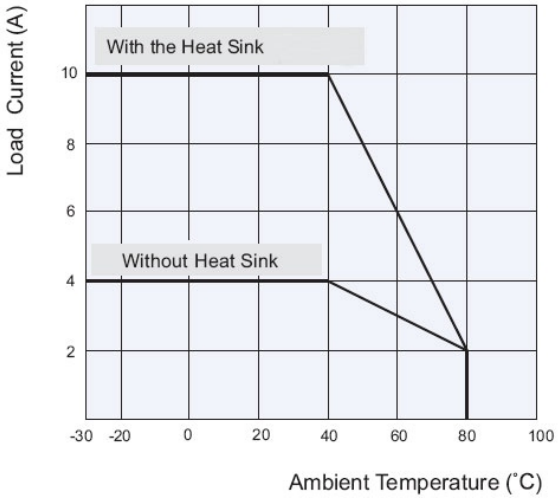
Model No. **SAP**		60A	80A	100A	120A
Load Current Range	Arms	0.05 to 60	0.05 to 80	0.05 to 100	0.05 to 120
Surge Current, 20 mSec (Max.)	Arms	200		300	400
Thermal Resistance, (Rthjc)	℃/W	0.65	0.5	0.3	0.3
Load Voltage Range (280V)	Vrms	24 to 280			
TRIAC Over voltage (280V)	Vpk				
Load Voltage Range (480V)	Vrms	40 to 660			
TRIAC Over voltage (480V)	Vpk	⩾1200			
Frequency Range	Hz	47 to 63			
Min. Off-state dv/dt	V/μsec	200			
Off State Leakage Current (Max.)	mArms	⩽8			
On-State Voltage Drop (Max.)	Vrms	1.6			
Turn On Time (Max.) “Z”	Cycle	1/2			
Turn On Time (Max.) “R”	mSec	1			
Turn Off Time (Max.)	Cycle	1/2			
General Specifications					
Dielectric (Input/Output)	Vrms	2500	2500	2500	2500
Dielectric (Input-Output/Base)	Vrms	2500	2500	2500	2500
Capacitance(Max.)	pf	10	10	10	10
Ambient Operating Temperature Range		–30 to +80 ℃			
Ambient Storage Temperature Range		–30 to +80 ℃			
Weight: (typical) **Case A**: Aluminum Base plate 99g, Copper Base plate 145g.					
Base plate: Aluminum or Copper, nickel-plated					
Case Color: Black					

Case and Dimension

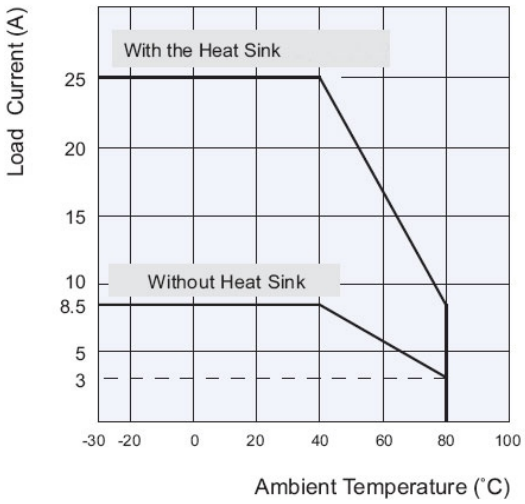


Characteristic Curves

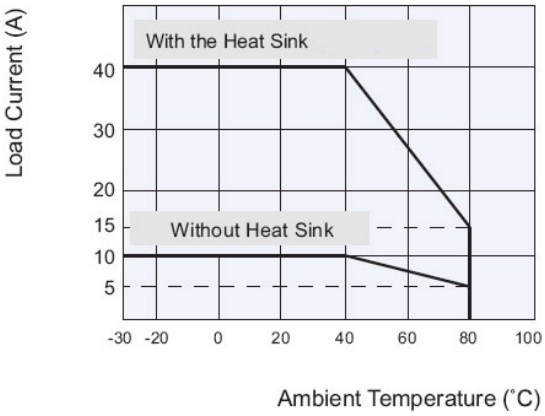
Max. Load Current vs. Ambient Temp. (10A)



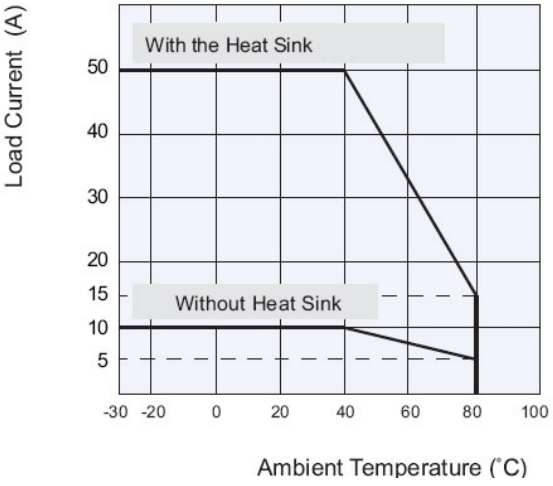
Max. Load Current vs. Ambient Temp. (25A)



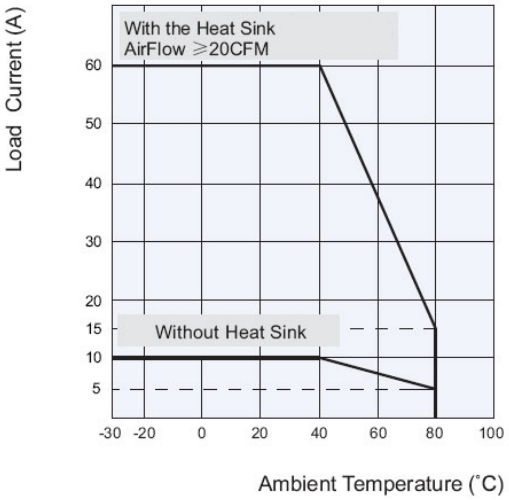
Max. Load Current vs. Ambient Temp. (40A)



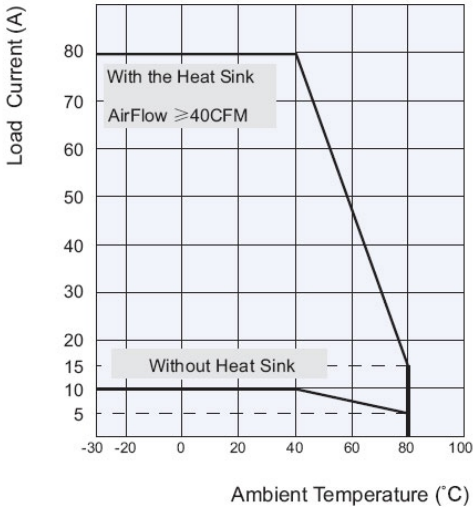
Max. Load Current vs. Ambient Temp. (50A)



Max. Load Current vs. Ambient Temp. (60A)

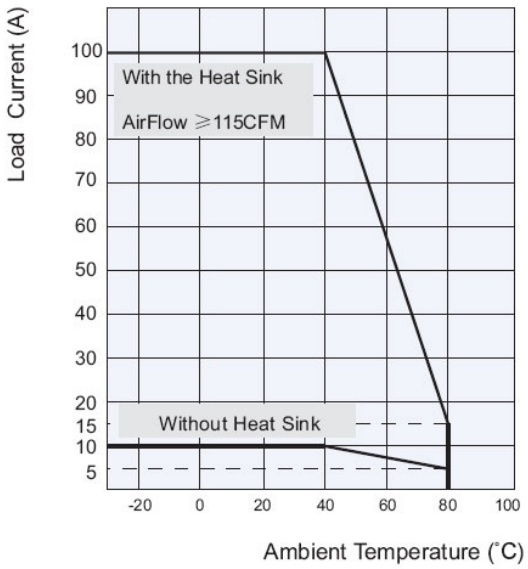


Max. Load Current vs. Ambient Temp. (80A)



Characteristic Curves

Max. Load Current vs. Ambient Temp. (100A)



Max. Load Current vs. Ambient Temp. (120 A)