

THREE PHASE SOLID STATE RELAY
S3PDJ-4-..., S3PDJ-6-.. Series
S3PA-4-..., S3PA-6-.. Series

Features

- *Rated O/P current 110, 125, 150, 175, 205 Amps(Casing B)*
- *Control Voltage 4-32 VDC or 90- 280 VAC*
- *Optically isolated*
- *Zero Voltage turn-on, Zero Current Turn-Off*
- *Built-in snubber, Input LED Indication*
- *4000 Volt Isolation*
- *Faster switching response*
- *Requires minimum actuation power*
- *IP 20 touch safe cover*

J: Zero voltage turn-on for resistive loads
K: Random turn-on for inductive loads



Casing B (50 to 90 Amps)



SATRONIX Three phase series of solid state relays switch three phase motors, heaters or transformer loads. SCR Output for heavy industrial loads. Direct Copper Bonding substrates used for rating above 50 Amps. Load voltage 600 VAC models too available. AC and DC controlled ranges available. Models from 10 – 90 Amps too available

Input Specifications

TYPE	S3PDJ - 4/6 - 110/125/ .. /205	S3PA - 4 /6- 110/125/ .. /205
Control Voltage range	4 - 32 VDC	90 - 280 VAC
Control current range	<=25 mA	<10 mA
Pick-up voltage	4 VDC	90 VAC
Drop-out voltage	2 VDC	10 VAC
Input resistance	Current Regulation	Current Regulation

- 17 – 80 VAC Input control voltage available on request



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Output Specifications

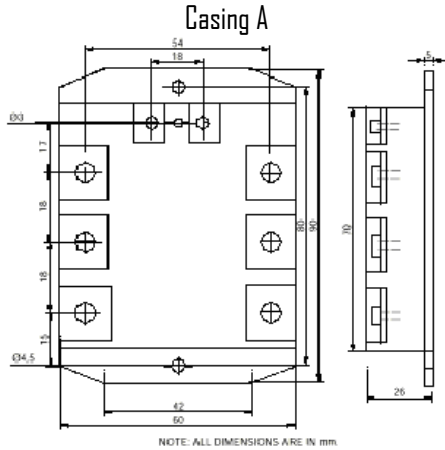
TYPE	S3PDJ/S3PA- 4 /660- 110	S3PDJ/S3PA - 4/660 - 125	S3PDJ/S3PA - 4/660 - 150	S3PDJ/S3PA - 4/660 - 175	S3PDJ/S3PA-4/660- 205
CASING	B	A / B	A / B	A / B	B
Current range with proper Heatsink (IT)	110 A	125 A	150 A	175 A	205 A
Repetitive peak off-state voltage(VDRM) Vpk	1600 Vpk	1600 Vpk	1600 Vpk	1600 Vpk	1600 Vpk
Voltage Drop @ Rated Current (VTM)	2 VACrms	2 VACrms	2 VACrms	2 VACrms	2 VACrms
Load Voltage Range	25 - 480 VACrms / 48 - 660 VAC rms				
Surge Current (I) Hz	50	1150 A	1250 A	1350 A	1500 A
non-Repetitive Hz	60				2250 A
t= 20msecs. (ITMS)					
Off-state leakage current @ (IDRM)	<10 mA				
Turn-on (max.) / pick-up			DC input models: 10 msecs	AC input models: 20msecs	
Turn-off (max.) / drop-out 50Hz			DC input models: 10 msecs	AC input models: 30msecs	
Holding current (IH)	250 mA	250mA	250mA	250mA	250mA
Dv/Dt @ Voltage	1000 V/ μs	1000 V/ μs	1000 V/ μs	1000 V/ μs	1000 V/ μs
I ² T Fusing (10 ms.)	5000 A ² S	5000 A ² S	8000 A ² S	15000 A ² S	25000 A ² S

**Note: Turn-on time for Random series – 0.02msec for DC control input
For Load voltage Range 48-660 VAC Type: S3PDJ-6-.. above 50 amps**

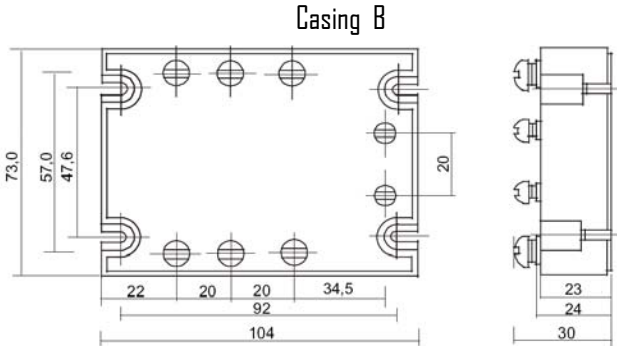
General Specifications

Frequency Range	47 - 70 Hz
Dielectric Strength (Input to Output to Base)	4000 Vrms
Weight	Approx. 300 g
Storage Temp.	- 40 °C to 100 °C
Junction Temp.	100 °C

Mechanical specifications



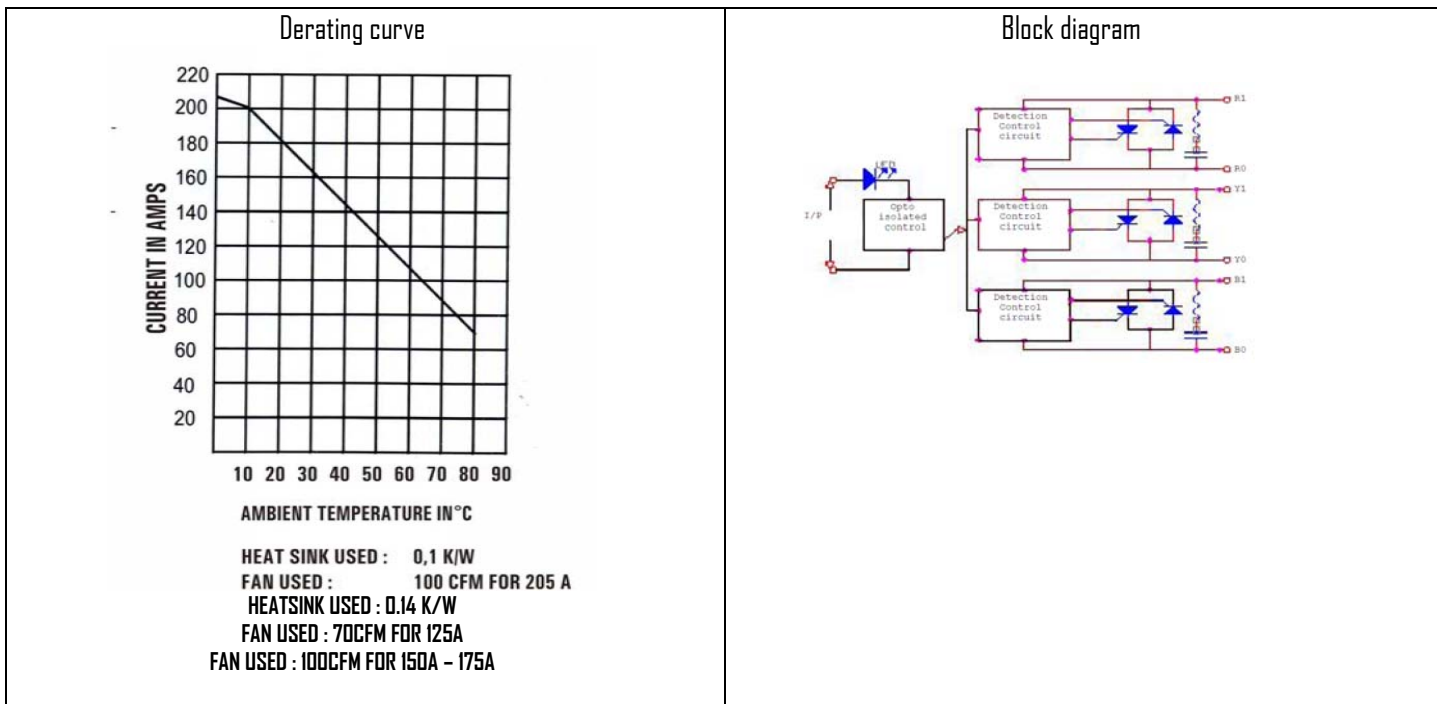
Note: casing A for below 40A SSR



Note: casing B above 50A SSR

Thermal Derating curve

Block diagram



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