

CAPACITOR SWITCHING SOLID STATE RELAYS – DC-AC / AC-AC
SDAC-660-.., SAAC-660-.., SERIES
RANGE: 5 – 70 KVAR

Features

- Direct Copper Bonded Back-To-Back SCR
- Opto Isolation 4000 VAC.
- Zero Voltage Turn-on.
- Safety Cover (optional).
- Reverse Voltage Protection For DC/AC Relay.
- Built in Snubber.
- Chassis Mountable.
- LED Indicator showing Relay 'ON' status
- Suitable for Capacitors load : PFC
- High immunity - low zero cross voltage



Description

SDAC-660-.. series is a SINGLE PHASE CAPACITOR SWITCHING SOLID STATE RELAYS – DC –AC from Satronix. It has two control options DC control with 3-32 VDC control voltage and AC Control with 160-280 VAC control voltage. It has rated operational voltage of 25- 690 VACrms and current options of 50, 75, 90 and 125 A. Also available in 150, 175 and 205 Amps. It has a built in snubber for protection from reverse voltage. It is used in Power factor correction systems and other capacitor switching applications and for heavy industrial loads.

Type Selection Guide

Input Control Voltage	Rated operational voltage	Rated operational current AC rms.			
		50 amps	75 amps	90 amps	125 amps
3 - 32 VDC	25-690VAC rms	SDAC-660-50	SDAC-660-75	SDAC-660-90	SDAC-660-125
160 – 280 VAC	25-690VAC rms	SAAC-660-50	SAAC-660-75	SAAC-660-90	SAAC-660-125



www.satronixindia.com

Input Specifications

Type	SDAC – 660 – 50/75/90/125	SAAC – 660 – 50/75/90/125
Control Voltage	3 – 32 VDC	160 – 280 VAC
Control Current Range	10 -30 mA	4-18 mA
Pick-Up Voltage	3 VDC	160 VAC
Drop Out Voltage	1 VDC	45 VAC
Input Resistance	Current regulator	

Output Specifications

Type	SDAC/SAAC-660-50	SDAC/SAAC-660-75	SDAC/SAAC-660-90	SDAC/SAAC-660-125
Current Range with proper heat sink (IT)	50 A	75 A	90 A	125 A
Surge Current non-repetitive $t = 10\text{secs ITMS}$	550 A	1000 A	1500 A	2000 A
Voltage Drop @ Current – VTM	1.6 VAC	1.6 VAC	1.6 VAC	1.6 VAC
Voltage Range	25-690VAC rms			
Over Voltage Rating (PIV) Transient Peak	1600/ 1800 V peak	1600/ 1800 V peak	1800 V peak	1800 V peak
Off-state leakage current @ voltage -IDRM	10 mA	10 mA	10 mA	10 mA
Turn-on (max) – T-on	10 ms	10 ms	10 ms	10 ms
Turn-off (max) – T-off	10 ms	10 ms	10 ms	10 ms
Dv/Dt @ Voltage (out)	500 V/ μs	500 V/ μs	500 V/ μs	500V/ μs
I^2T Fusing (10 ms)	3000 A ² S	5000A ² S	11,000A ² S	20,000A ² S

General Specifications

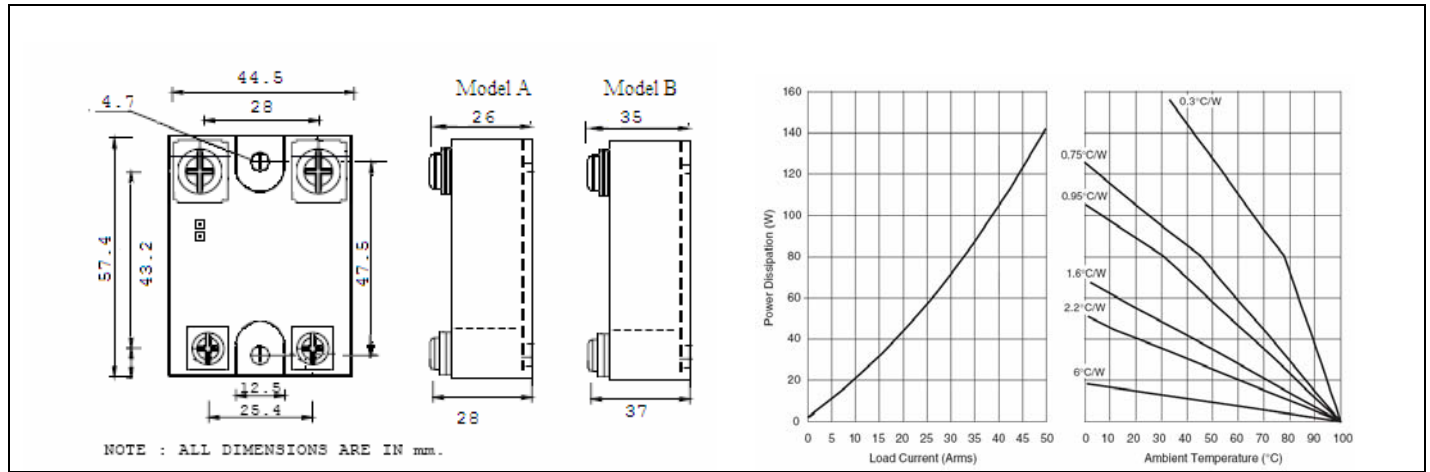
Type	SDAC/SAAC-660-50	SDAC/SAAC-660-75	SDAC/SAAC-660-90	SDAC/SAAC-660-125
Frequency Range	47 – 70 Hz	47 – 70 Hz	47 – 70 Hz	47 – 70 Hz
Weight	Approx. 106 g			
Storage Temp.	– 40 °C to 100 °C			
Junction Temperature	100 °C			

NOTE: HEATSINKS TOO AVAILABLE



www.satronixindia.com

Mechanical Specifications



SATRONIX (INDIA) Pvt.Ltd.

OFFICE: 412, Laxmi Plaza, Laxmi Indl. Est., Link Rd, Andheri (W), Mumbai- 400 053.INDIA
Works:Unit No. 1,Electronic Sadan 1/Unit No.12, Electronic Sadan 3, Bhosari MIDC,
PUNE -411026, INDIA

Tele: 91 (022) 26325242, (020) 27122758 **FAX:** 91 (022) 26325242, (020) 27122758

Email: sales@satronixindia.com satronix@bom3.vsnl.net.in
