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# **Solid State Relays - Panel Mount: SSC**



#### **Features**

IGBT based Solid State DC Contactor • 25Amp • 800 and 1000 VDC models - DC Switching • 12, 24 and 36 VDC control available.

	SPECIFICATIONS	OUTPUT SPECIFICATIONS			
Product	Control Voltage Range	Load Current	Switching Voltage Type	Turn On	Load Voltage Range
SSC1000-25- 12	10-12 Volts DC	0.02-25 Amps DC	DC	N/A	0-1000 Volts DC
SSC1000-25- 24	20-24 Volts DC	0.02-25 Amps DC	DC	N/A	0-1000 Volts DC
SSC1000-25- 36	30-36 Volts DC	0.02-25 Amps DC	DC	N/A	0-1000 Volts DC
SSC800-25-12	10-12 Volts DC	0.02-25 Amps DC	DC	N/A	0-800 Volts DC
SSC800-25-24	20-24 Volts DC	0.02-25 Amps DC	DC	N/A	0-800 Volts DC
SSC800-25-36	30-36 Volts DC	0.02-25 Amps DC	DC	N/A	0-800 Volts DC



- IGBT Output
- Panel Mount
- High Voltage
- Internal Overvoltage **Protection Available**
- Control Voltage 12Vdc, 24Vdc, 36Vdc

Series SSC solid state DC contactors feature IGBT technology for high voltage DC switching applications All models come in Crydom's standard panel-mount package. Manufactured in Crydom's ISO 9001 Certified facility for optium product performance and reliability.

### **OUTPUT SPECIFICATIONS**

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MODEL NUMBERS	SSC800-25	SSC1000-25		
Operating Voltage Range [Vdc]	0-800	0-1000		
Maximun Transient Voltage [Vpk]	900 ④	1200 <sup>⑤</sup>		
Max. Load Current ③ [Adc]	25	25		
Min. Load Current [mA]	20	20		
Max. Surge Current, [Adc] (10msec)	75	75		
Max. On-State Voltage Drop @ Rated Current [Vdc]	1.6	1.6		
Thermal Resistance Junction to Case [R <sub>OJC</sub> ] C/W	0.8	0.8		
Max. Off-State Leakage Current @ Rated Voltage [mA]	0.3	0.3		
Max. Turn-On Time [msec]	1.5	1.5		
Max. Turn-Off Time [msec]	1.5	1.5		

## **INPUT SPECIFICATIONS**

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Nominal Control Voltage [Vdc]	12	24	36
Control Voltage Range [Vdc]	8-16	20-28	32-40
Maximum Turn-On Voltage [Vdc]	8	20	32
Minimum Turn-Off Voltage [Vdc]	1	1	1
Nominal Input Impedance [Ohm]	780	1500	2,400
Typical Input Current at Nominal Voltage [mA]	15	15	15

#### **GENERAL NOTES**

- $\ensuremath{\mbox{\ensuremath{\mbox{$\mathbb{Q}}$}}}$  All parameters at 25°C unless otherwise specified.
- ${\color{gray} {@}}$  Dielectric strength and insulation resistance are measured between input and output.
- 3 Heat sinking required, for derating curves see page 2.
- Internal overvoltage protection included.
- (5) Internal overvoltage protection not included.
- ⑥ Use suffix -12, -24 or -36 to specify control voltage. For other values call factory Sample: SSC800-25-24.

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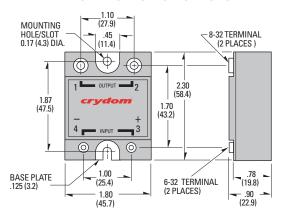




Solid State DC Contactor 25Amp • 0-1000 Vdc - DC OUTPUT

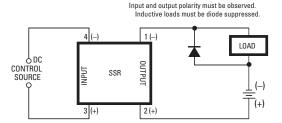
GENERAL SPECIFICATIONS		
Dielectric Strength 60Hz	2500 Vrms	
Insulation Resistance (Min.) @ 500 V	dc 10 <sup>9</sup> Ohm	
Max. Capacitance Input/Output	50 pF	
Ambient Operating Temperature Ran	ge -30 to 80°C	
Ambient Storage Temperature Range	e -40 to 125°C	
MECHANICAL SPECIFICATIO	NS	
Weight: (typical)	al) 3.0 oz. (86.5g)	
Encapsulation:	Thermally Conductive Epoxy	
Terminals:	Screws and Saddle Clamps Furnished, Unmounted	

#### **MECHANICAL SPECIFICATIONS**



Screw Torque Requirements: 6-32 Screws - 10 in. lbs., 8-32 - 20in. lbs. (Screws dry without grease.)

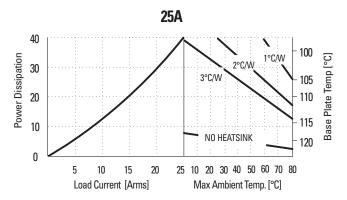
#### WIRING CONNECTIONS



#### **Transient Protection**

All loads are inductive, even ones that are not so labeled. An inductive load will produce harmful transient voltages when it is turned off. The more perfect the switch, the larger the transient voltages; the IGBT output is so nearly an ideal switch that the transient voltages produced by seemingly "non-inductive" loads can cause damage if not suppressed. Diodes should be fast recovery type with PIV rated greater than supply voltage.

#### **CURENT DERATING CURVE**



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