



SSR & HEAT SINK ASSEMBLIES



Features

- 82.5 amp AC output @ 40°C
- Single Channel or 3 Phase output
- 3 to 32 VDC input control voltage
- Panel mounted
- UL, CSA, VDE, CE approved SSRs
- Epoxy free design



Description	82.5A	82.5A	
3-32 VDC Control	HS053-D24125	HS053-HD60125	

• OUTPUT SPECIFICATIONS (1)

Description	HS053-D24125	HS053-HD60125
Operating Voltage (47-63Hz) [Vrms]	24-280	48-660
Transient Overvoltage [Vpk]	600	1200
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	1.0	1.0
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/µsec] (2)	500	500
Maximum Load Current [Arms]	82.5	82.5
Minimum Load Current [Arms]	150	150
Maximum Surge Current (16.6ms) [Apk]	1200	1200
Maximum On-State Voltage Drop @ Rated Current [Vac]	1.15	1.15
Maximum I ² t for Fusing (8.3 msec) [A ² sec]	6000	6000
Minimum Power Factor (with Maximum Load)	0.5	0.5



Description	HS053-D24125	HS053-HD60125	
Control Voltage Range	3-32 VDC	4-32 VDC	
Minimum Turn-On Voltage	3.0 VDC	4.0 VDC	
Minimum Turn-Off Voltage	1.0 VDC	1.0 VDC	
Maximum Reverse Voltage	-32 VDC	-32 VDC	
Minimum Input Current	7.0 mA	7.0 mA	
Maximum Input Current	12 mA	12 mA	
Nominal Input Impeadance	Current Regulated	Current Regulated	
Maximum Turn-On Time [msec]	1/2 Cycle	1/2 Cycle	
Maximum Turn-Off Time [msec]	1/2 Cycle	1/2 Cycle	



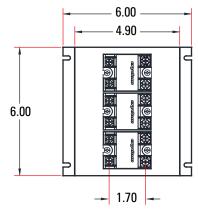
Page 1

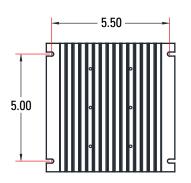


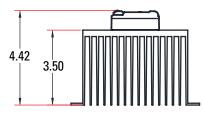
Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz)	4000 Vrms
Minimum Insulation Resistance (@ 500 V DC)	10 ⁹ Ohm
Maximum Capacitance, Input/Output	8 pF
Ambient Operating Temperature Range	-40 to 80°C
Ambient Storage Temperature Range	-40 to 125°C
Status Indicator Display	None
Weight (typical)	3.31 lb. (150 g)
Recommended Terminal Screw Torque Range: (in-lb/Nm)	6-32 Screws - 13-15/1.5-1.7. 8-32 Screws - 18-20/2-2.2 (Screws dry without grease)
Thermal pad installed	Yes

MECHANICAL SPECIFICATIONS

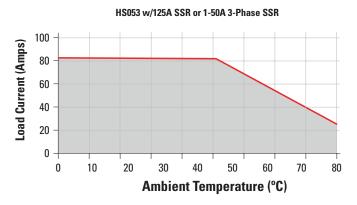
Tolerances: ±0.02 in / 0.5 mm All dimensions are in: inches [millimeters]







THERMAL DERATE INFORMATION





(1) All parameters at 25°C unless otherwise specified.

(2) Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1







Designed in accordance with the requirements of IEC 62314 Agency approvals are for relay only.





RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

 The product's side panels may be hot, allow the product to cool before touching • Follow proper mounting instructions including torque values

• Do not allow liquids or foreign objects to enter this product Failure to follow these instructions can result in serious injury, or equipment damage.



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

Failure to follow these instructions will result in death or serious injury

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