

HS103DR SERIES ASSEMBLIES

DIN RAIL MOUNT



Features

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



Output (1)

Description	HS103DR-D2490	HS103DR-HD6090
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]	55	55
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 I²t for Fusing (8.3 msec) [A² sec]	6000	6000
Minimum Power Factor (with Maximum Load)	0.5	0.5

Input (1)

Description	HS103DR-D2490	HS103DR-HD6090
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	Curent Regulated	Curent Regulated
Maximum Turn-On Time [msec]	1/2 Cycle	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle	1/2 Cycle

General

Description	HS103DR-Dxx90	
Dielectric Strength, Input/Output/Base (50/60Hz)	4000 Vrms	
Minimum Insulation Resistance (@ 500 V DC)	10 9 Ohms	
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)	1.36 lb. (619 g)	
Recommended Terminal Screw Torque Range: (in-lbs/Nm)	6-32 Screws - 13-15/1.5-17. 8-32 Screws - 18-20/2-2.2. (Screws dry without grease)	
Thermal pad installed	Yes	

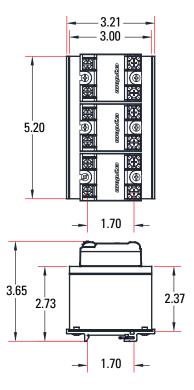


Description	55A	55A
3-32 VDC Control	HS103DR-D2490	HS103DR-HD6090



⁽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



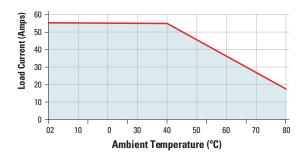






THERMAL DERATE INFORMATION

HS103DR w/90A SSR or 1-25A 3-Phase SSR





AGENCY APPROVALS & CERTIFICATIONS

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







10143 UG (Not Applicable: -B and 4D)









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.

Page 4

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