

ASPF SERIES



Features

- Mini-SIP SSR
- Ratings to 3A @ 280 VAC
- SCR output
- DC control
- Zero-crossing (resistive loads) or random-fire (inductive loads) output



Control Voltage	Zero Crossing	Random Fire
4-10 VDC	ASPF240D3	ASPF240D3R



SPECIFICATIONS

Output (1)

Operating Voltage (47-63Hz) [Vrms]	24-280	24-280
Transient Overvoltage [Vpk]	600	600
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	0.1	0.1
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/µsec] ³	500	500
Maximum Load Current [Arms]	3.0	3.0
Minimum Load Current [Arms]	0.1	0.1
Maximum Surge Current (16.6ms) [Apk]	100	100
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.5	1.5
Minimum Power Factor (with Maximum Load)	0.5	0.5

Input (1)

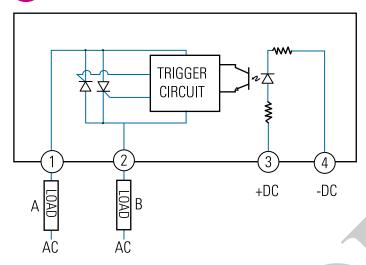
Control Voltage Range	4-10 VDC
Must Turn On Voltage	4.0 VDC
Must Turn Off Voltage	1.0 VDC
Typical Input Current @ 5 VDC	15 mAdc
Nominal Input Impedance	300 Ohm
Maximum Turn-On Time [msec] ⁴	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle



General (1)

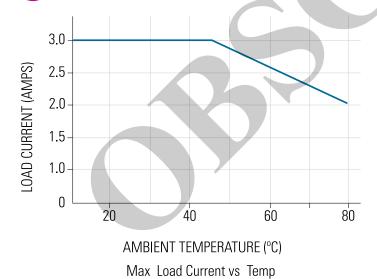
Dielectric Strength, Input/Output/Base (50/60Hz) 2	3750 Vrms
Minimum Insulation Resistance (@ 500 V DC) ²	10 ⁹ Ohms
Maximum Capacitance, Input/Output	8 pF
Ambient Operating Temperature Range	-30°C to 80°C
Ambient Storage Temperature Range	-30°C to 125°C
Weight (typical)	0.35 oz. (10g)
Encapsulation	Thermally Conductive Epoxy

WIRING DIAGRAM



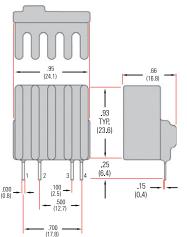
Load can be wired in location A or B

THERMAL DERATE INFORMATION





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



DC CONTROL PIN 1: AC LOAD PIN 2: AC LOAD PIN 3: +DC CONTROL PIN 4: -DC CONTROL



GENERAL NOTES

- (1) All parameters at 25°C unless otherwise specified.
- (2) Dielectric and insulation resistance are measured between input and output
- (3) Off-State dv/dt test method per EIA/NARM standard RS-443
- (4) Turn-On time for random turn-on versions is 0.01 msec (DC C)



AGENCY APPROVALS & CERTIFICATIONS

















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 3

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