DRA1 SPF Series

- 10mm Single Channel DIN Rail Mount SSR Assembly
- AC Ratings up to 380 VAC and 10 Amps
- 3-15 VDC, 15-32VDC 18-36 VAC and 90-180 VAC control
- Cage style screw terminals for easy connection
- Fits standard 35mm DIN rail
- Includes LED Status indicator (DC control only)

PRODUCT SELECTION

Description	10 A	10A	10 A	10 A
3-15 VDC Control	DRA1-SPF240D25	DRA1-SPF240D25R (5)		
4-15 VDC Control				DRA1-SPF380D25
15-32 VDC Control	DRA1-SPFE240D25	DRA1-SPFE240D25R (5)		DRA1-SPFE380D25
90-140 Vrms Control			DRA1-SPF240A25	
18-36 Vrms Control			DRA1-SPFE240A25	

OUTPUT SPECIFICATIONS (1)

Description	SPF(E)240x25	SPF(E)380x25
Operating Voltage [VAC]	12-280	48-380**
Transient Overvoltage [Vpk]	600	1200
Maximum Load Current [Arms] (2) (3)	10	10
Minimum Load Current [Arms]	0.06	0.06
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	0.1	0.1
Minimum off-state dv/dt @ maximum rated voltage [V/µsec] (4)	500	500
Maximum 1 Cycle Surge Current (50/60 Hz) [Apk]	239/250	239/250
Maximum I^2t for fusing (50/60 Hz, 1/2 cycle) [A^2 sec]	285/260	285/260
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.6	1.6

INPUT SPECIFICATIONS (1)

Description	SPF240D25	SPF380D25	SPFExxxD25	SPFxxxA25	SPFExxxA25
Control Voltage Range	3-15 VDC	4-15 VDC	15-32 VDC	90-140 Vrms	18-36 Vrms
Must Turn On Voltage	3.0 VDC	4.0 VDC	15.0 VDC	90.0 Vrms	18.0 Vrms
Must Turn Off Voltage	1 .0 VDC	1 .0 VDC	1 0 VDC	10.0 Vrms	2.0 Vrms
Typycal Input Current	15 mAdc	15 mAdc	15 mAdc	10 mArms	10 mArms
Nominal Input Impedance	300 Ohm	240 Ohm	1500 Ohm	14.1K Ohm	2.1k Ohm
Maximum Turn-On Time [msec] (5)	1/2 Cycle	1/2 Cycle	1/2 Cycle	10	10
Maximum Turn-Off Time [µsec]	1/2 Cycle	1/2 Cycle	1/2 Cycle	40	40

GENERAL SPECIFICATIONS

Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz)	4000 VRMS
Minimum Insulation Resistance (@ 500 VDC)	10^9 Ohms
Maximum Capacitance, Input/Output	8 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125 °C
Weight (typical)	0.32 lb (145.5g)
Encapsulation	Themally Conductive Epoxy

GENERAL NOTES

1) All parameters at 25°C unless otherwise specified.
2) See derating chart on page 3.
3) Steady state load current exceeding 10 amps will damage socket.
4) Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
5) Turn-on time for DC control random turn-on versions is 0.1 msec

****NOTE: Voltages in excess of 380V will damage output terminals.**