

DRA1 MP Series



- 10mm Single Channel DIN Rail Mount SSR Assembly
- AC Ratings up to 280 VAC and 4 Amps
- DC Ratings 60 VDC and 3 Amps
- N.O. AC or DC output, N.C. DC Output (-B)
- 3-32VDC control
- Cage style screw terminals for easy connection
- Fits standard 35mm DIN rail

PRODUCT SELECTION

Description	3 A	3 A	4 A
3-32 VDC Control	DRA1-MP120D3	DRA1-MP240D3	DRA1-MP240D4
3-32 VDC Control	DRA1-MPDCD3	DRA1-MPDCD3-B	

AC OUTPUT SPECIFICATIONS (1)

Description	DRA1-MP120D3	DRA1-MP240D3	DRA1-MP240D4
Operating Voltage [VAC]	12-140	24-280	24-280
Transient Overvoltage [Vpk]	400	600	600
Maximum Load Current [Arms] (2)	3	3	4
Minimum Load Current [Arms]	0.02	0.02	0.02
Maximum Off-State Leakage Current @ Rated Voltage [mA _{rms}]	5	5	5
Minimum off-state dv/dt @ maximum rated voltage [V/μsec] (3)	200	200	200
Maximum 1 Cycle Surge Current (50/60 Hz) [A _{pk}]	86/90	86/90	125/130
Maximum I ² t for fusing (50/60 Hz, 1/2 cycle) [A ² sec]	39/36	39/36	78/72
Maximum On-State Voltage Drop @ Rated Current [V _{pk}]	1.6	1.6	1.6

DC OUTPUT SPECIFICATIONS (1)

Description	DRA1-MPDCD3	DRA1-MPDCD3-B
Operating Voltage [VDC]	3-60	3-60
Maximum Load Current [Adc]	3	3
Minimum Load Current [Adc]	0.02	0.02
Maximum Surge Current [Adc]	5	5
Maximum On-State Voltage Drop @ Rated Current [Vdc]	1.5	1.5

INPUT SPECIFICATIONS (1)

Description	DRA1-MPxxxDx	DRA1-MPDCD3	DRA1-MPDCD3-B
Control Voltage Range	3-32 VDC	3-32 VDC	3-32 VDC
Must Turn On Voltage	3.0 VDC	3.0 VDC	1.0 VDC
Must Turn Off Voltage	1.0 VDC	1.0 VDC	3.0 VDC
Typical Input Current	2.6 mA _{dc}	2.6 mA _{dc}	2.6 mA _{dc}
Nominal Input Impedance	1500 Ohm	1500 Ohm	1500 Ohm
Maximum Turn-On Time [msec]	8.33	0.10	0.10
Maximum Turn-Off Time [msec]	8.33	0.10	0.10

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	-40 to 80°C
Ambient Storage Temperature Range	-40 to 125 °C
Weight (typical)	0.08 lb (36.4g)
Encapsulation	Thermally Conductive Epoxy

GENERAL NOTES

- 1) All parameters at 25°C unless otherwise specified.
- 2) See derating chart on page 3
- 3) Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1