



SM Series

Accessory Products Transient Suppression Module



FEATURES

- Meets DC Input Transient Limits For MIL - STD - 704A
Transient: 80 Vdc for 0.1 second
Spike: 600 Vdc for 10 μ S
- Meets DC Input Transient Limits For MIL - STD - 1275A
Transient: 100 Vdc for 100 mS
Spike: \pm 250 Vdc for 50 μ S

HOW TO ORDER

SM1275 - **C**



Options: **A** - pins out baseplate of unit **I** - metric inserts (M3)
C - thru hole inserts (0.140 DIA)

Standard unit is 28 Vdc nominal input with pins out the top written as SM1275

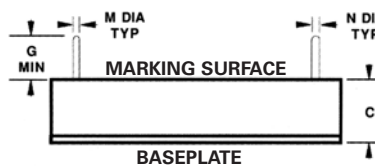
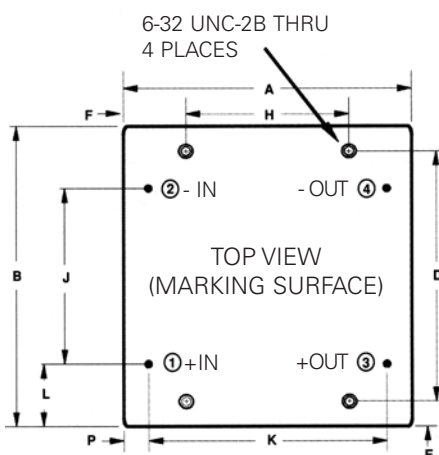
SPECIFICATIONS

For 28 Vdc Input Converters Only

	Min	Typ	Max	Units
Steady State Input	14		40	Vdc
Output Current			20	A
Output Voltage (clamp)			50	Vdc
Fuse (recommended - slow blow)		22		A
Insertion Loss (@ 20 A and 25°C)			1	Vdc
Input Surge Limit (for 0.1 sec, 0.5 Ω)			100	Vdc
Input Spike Limit (for 50 μ S, 15 mJ)			\pm 250	Vdc
Input Spike Limit (for 10 μ S, 50 Ω)			600	Vdc
Reverse Polarity Protection		Shunt Diode (input fuse required)		
No load Power Dissipation			2.5	Watt

	Min	Typ	Max	Units
Efficiency	90		97	%
Operating Temperature	-55		+100	°C
Storage Temperature	-55		+125	°C
Isolation: Input / Output to Case	500			Vdc
Insulation Resistance (@ 50 Vdc)	50			MOhm
Size	2.4 x 2.3 x 0.5			inch
	61 x 59 x 13			mm
Weight	4.5			oz
	130			grams
Environmental	MIL - STD - 810C			

CASE DRAWINGS



Standard Pins - Pin Placement: top.
Model number written as SM1275

A Option - Pin Placement: baseplate.
Model number written as SM1275 - A

C Option - Thru hole inserts (0.140 DIA).
Model number written as SM1275 - C

	A	B	C	D	E	F	G	H	J	K	L	M	N	P
inch	2.30	2.40	.50	2.100	.15	.50	.30	1.300	1.400	1.900	.50	.040	.080	.20
mm	58.4	61.0	12.7	53.34	3.8	12.7	76	33.02	35.56	48.26	12.7	1.02	2.03	5.1

Tolerances: Inches x.xx = \pm 0.03
x.xxx = \pm 0.015
mm x.xx = \pm 0.4
x.x = \pm 0.8

Material: Pin - Brass (Solder Plating), Baseplate - Aluminum 5052-H32, Case - Steel.
Finish: Nickel Plating.
Mounting: 6-32 THD inserts are provided in baseplate.
Metric: M3 inserts.



SM Series

Accessory Products AC Front-End Rectifier



FEATURES

- AC Front End For 270 Vdc Input SM Series
- Compatible With All SM Series Accessory Products

HOW TO ORDER



Options: **A** - pins out baseplate of unit **I** - metric inserts (M3)
C - thru hole inserts (0.140 DIA)
 Standard unit has pins out the top written as SMR

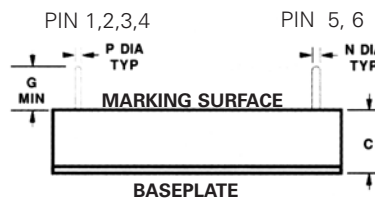
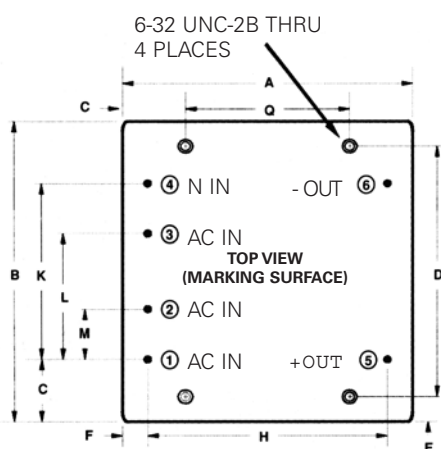
SPECIFICATIONS

For 270 Vdc Input Converters Only

	Min	Typ	Max	Units
Input Voltage:				
1 Ø, 47 - 440 Hz	85		130	Vac
1 Ø, 47 - 440 Hz	170		264	Vac
3 Ø WYE, 47 - 440 Hz	85		130	Vac
3 Ø Delta WYE, 47 - 440 Hz	170		264	Vac
Rated Output Voltage		300		Vdc
Rated Output Current			3.3	A
Rated Output Power			1000	Watt

	Min	Typ	Max	Units
Isolation:				
Input / Output to Case	1000			Vdc
Operating Temperature (baseplate)	- 55		+100	°C
Storage Temperature	- 55		+125	°C
Size	2.4 x 2.3 x 0.5			inch
	61 x 59 x 13			mm
Weight		5.0		oz
		140		grams

CASE DRAWINGS



Standard Pins - Pin Placement: top.
 Model number written as SMR

A Option - Pin Placement: baseplate.
 Model number written as SMR - A

C Option - Thru hole inserts (0.140 DIA).
 Model number written as SMR - C

	A	B	C	D	E	F	G	H	K	L	M	N	P	Q
inch	2.30	2.40	.50	2.100	.15	.20	.30	1.900	1.400	1.000	.400	.080	.040	1.300
mm	58.4	61.0	12.7	53.34	3.8	5.1	76	48.26	35.56	25.40	10.20	2.03	1.02	33.02

Tolerances: Inches x.xx = ±0.03
 x.xxx = ±0.015
 mm x.xx = ±0.4
 x.x = ±0.8

Material: Pin - Brass (Solder Plating), Baseplate - Aluminum 6061-T6, Case - Steel.
 Finish: Nickel Plating.
 Mounting: 6-32 THD inserts are provided in baseplate.
 Metric: M3 inserts.

All specifications are typical @+25°C with nominal input voltage under full output load conditions, unless otherwise noted. Specifications subject to change without notice.