

Dual Configuration Power Entry Module

L Series



UL Recognized
CSA Certified
VDE Approved



L Series

- Power entry module with switch or fuse
- For 10A capability and high performance filtering see the P Series on page 192
- Two element circuit provides extended EMI attenuation similar to EAB inlet filter
- North American or metric fuse holders
- Available with minimal leakage current for medical applications (HL models)

Ordering Information



Specifications

Maximum leakage current each Line to Ground:

	<u>DL Models</u>	<u>HL Models</u>
@ 120 VAC 60 Hz:	.25 mA	2 μ A
@ 250 VAC 50 Hz:	.50 mA	5 μ A

Hipot rating (one minute):

Line to Ground:	2250 VDC
Line to Line:	1450 VDC

Operating Voltage:

1S & 1SC models (fixed):	250 VAC max.
4 & 4C Suffix:	100, 120, 220 or 240 VAC.

Operating Frequency:

50/60 Hz

Rated Current:

2 to 6A

Required Fuse(s):

North American:	one .25 x 1.25" (<i>not included</i>)
Metric:	two 5 x 20mm (<i>not included</i>)

Switch:

10,000 operations at 51A max. inrush DPST

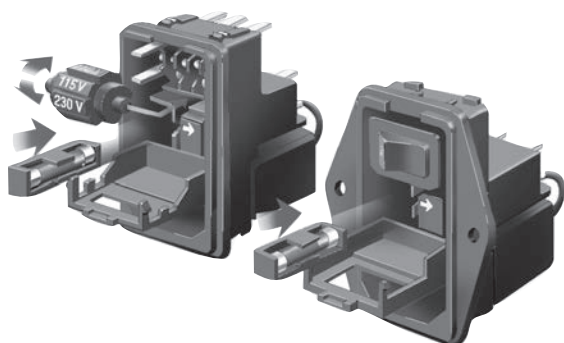


Dual Configuration Power Entry Module *(continued)*

L Series

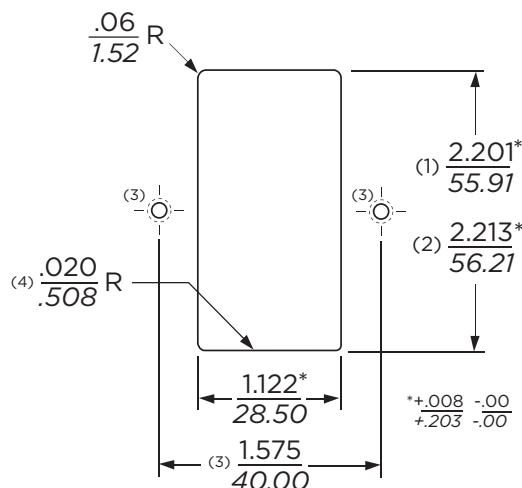
Available Part Numbers		North American Fusing		Metric Fusing	
		Flange Mount	Snap-In	Flange Mount	Snap-In
Non-Filtered	Single Voltage, Switched	6EL1S	6EL1SC	6EL1SM	6EL1SCM
	4 Voltage Select, No Switch	6EL4	6EL4C	6EL4M	6EL4CM
General Purpose Filter	Single Voltage, Switched	2EDL1S	2EDL1SC	2EDL1SM	2EDL1SCM
		4EDL1S	4EDL1SC	4EDL1SM	4EDL1SCM
		6EDL1S	6EDL1SC	6EDL1SM	6EDL1SCM
	4 Voltage Select, No Switch	2EDL4	2EDL4C	2EDL4M	2EDL4CM
		4EDL4	4EDL4C	4EDL4M	4EDL4CM
		6EDL4	6EDL4C	6EDL4M	6EDL4CM
Medical Filter	Single Voltage, Switched	6EHL1S	6EHL1SC	6EHL1SM	6EHL1SCM
	4 Voltage Select, No Switch	6EHL4	6EHL4C	6EHL4M	6EHL4CM

Voltage Selection



To change selected voltage: disconnect the power cord; open cover using a small blade screwdriver or similar tool; insert the tool into the voltage selection slot and remove wheel from unit; select desired voltage; replace wheel into unit and close cover, making sure the selected voltage appears in connector window.

Recommended Panel Cutouts



- Notes:
- (1) For panel thickness of .031 – .079 [0.8 – 2.0]
 - (2) For panel thickness of .083 – .126 [2.1 – 3.2]
 - (3) Mounting Holes .126 [3.20] Dia. for flange mounted versions only
 - (4) For Snap-In applications, the 1.12 [28.5] sides of the cutout must have a .02 [.508] radius on the installation side. Not required for flange mount versions.

Dual Configuration Power Entry Module (continued)

L Series

Electrical Schematics

DL Models

Single Voltage, Switched (DL1S)



4 Voltage Select, No-Switch (DL4)



HL Models

Single Voltage, Switched (HL1S)



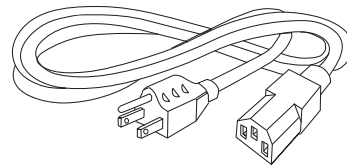
4 Voltage Select, No-Switch (HL4)



Note 1: Provision for dual Metric style fusing
Note 2: On/Off switch present only with "S" suffix models

Accessories

GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord



LA303: Voltage Select Wheel, 3 position
Selection drum for use with L4 models.
Marked with 110V, 220V and 240V

LA304: Voltage Select Wheel, 4 position
Selection drum for use with L4 models.
Marked with 100V, 110V, 220V and 240V.
One LA304 comes standard with each L4 model.



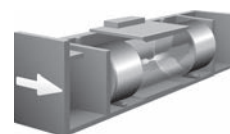
LA400: Blank insert
Blank to replace switch in single voltage models

LA601: Insulating Boot
Plastic shroud to cover back of module to prevent inadvertent access

Replacement Fuse Holders

LA200: North American Fuseholder
Accommodates one .25 x 1.25" fuse

LA201: Metric Fuseholder
Accommodates one 5 x 20mm metric fuse



Dual Configuration Power Entry Module *(continued)*

L Series

Case Styles

Flange Models, Non-filtered



Switched model shown, for non-switched detail refer to snap-in models

Typical Dimensions:
Line Inlet (1): IEC 60320-1 C14
Backplate Terminals: .110 [2.79]
Switch Terminals: .187 [4.765] with .07 x .16 [1.8 x 3.8] slot

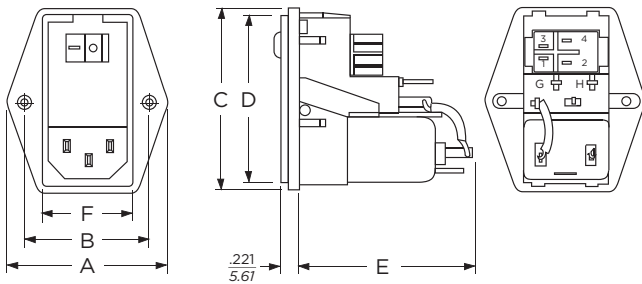
Snap-in Models, Non-filtered



Non-switched model shown, for switched detail refer to flange models

Typical Dimensions:
Line Inlet (1): IEC 60320-1 C14
Backplate Terminals: .110 [2.79]
Switch Terminals: .187 [4.765] with .07 x .16 [1.8 x 3.8] slot

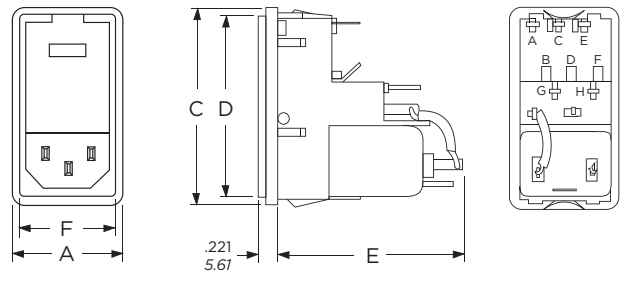
Flange Models, Filtered



Switched model shown, for non-switched detail refer to snap-in models
Metric fuse models have an additional jumper from filter to module

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Non-switched model shown, for switched detail refer to flange models
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Case Dimensions

	A	B	C	D	E	F
Model No.	(max.)	$\pm .015$ $\pm .38$	(max.)	(max.)	(max.)	(ref.)
Flange Unfiltered	1.98 50.29	1.575 40.0	2.3 58.42	2.14 54.36	1.66 42.16	1.11 28.19
Snap-in Unfiltered	1.28 32.51	-	2.3 58.42	2.14 54.36	1.66 42.16	1.11 28.19
Flange Filtered	1.98 50.29	1.575 40.0	2.3 58.42	2.14 54.36	2.01 51.05	1.11 28.19
Snap-in Filtered	1.28 32.51	-	2.3 58.42	2.14 54.36	2.01 51.05	1.11 28.19

Dual Configuration Power Entry Module *(continued)*

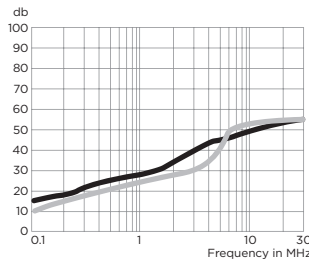
L Series

Performance Data

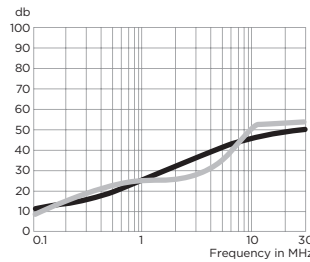
Typical Insertion Loss

Measured in closed 50 Ohm system

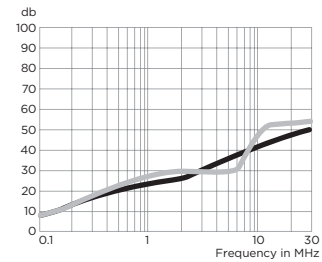
2EDL



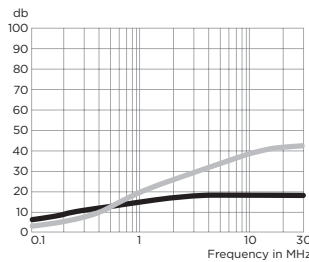
4EDL



6EDL



6EHL



— Common Mode / Asymmetrical (L-G)
— Differential Mode / Symmetrical (L-L)

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz					
	.05	.15	1	5	10	30
EDL Models						
1A	6	14	24	40	45	50
3A	2	8	18	32	38	45
6A	1	6	17	31	37	45
EHL Models						
6A	3	8	15	18	18	18

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz						
	.05	.15.5	1	3	5	10	30
EDL Models							
1A	7	16	21	23	37	47	50
3A	6	14	18	23	26	45	47
6A	6	15	20	25	24	45	50
EHL Models							
6A	4	14	20	28	32		

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[FN9233S1R-1-06](#) [FN9233S1R-12-06](#) [FN9233SB-1-06](#) [FN9233SB-12-06](#) [FN9233SB-8-06](#) [FN9233SR-10-06](#) [FN9233SR-3-06](#) [FN9244B-15-06](#)
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