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L Series

UL Recognized
CSA Certified
VDE Approved



EDL1S / EHL1S

EDL4C / EHL4C

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

6 E D L 1 S C M

- **Fuseholder Type** *(pre-installed)*
  - M – Metric
  - Omit for North American
- **Mounting Type**
  - C– Snap-In
  - Omit for flange mount
- **Switch Option**
  - S – DPST on/off switch
  - Omit for none
- **Voltage Selection Positions**
  - 1 or 4
- **L Series**
- **Filter Type**
  - D – General Purpose
  - H – Medical
  - omit for none
- **Leakage current designation**
  - E – Low Leakage *(<0.5 mA)*
- **Current Rating**
  - 2, 4 or 6A

Specifications

Maximum leakage current each Line to Ground:

	DL Models	HL Models
@ 120 VAC 60 Hz:	.25 mA	2 µA
@ 250 VAC 50 Hz:	.50 mA	5 µA

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" *(not included)*
Metric:	two 5 x 20mm *(not included)*

Switch: DPST
10,000 operations at 51A max. inrush

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

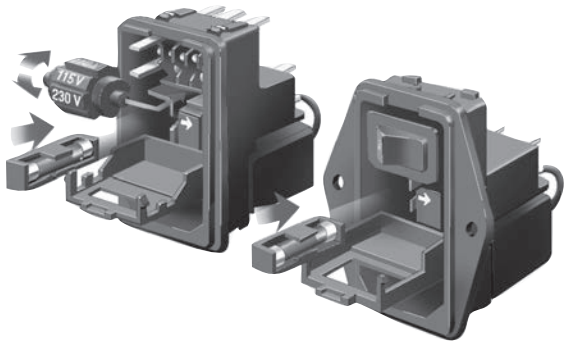
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L Series

Available Part Numbers

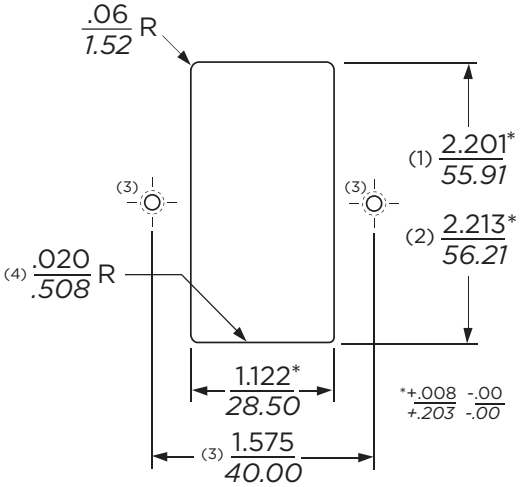
		North American Fusing		Metric Fusing	
		Flange Mount	Snap-In	Flange Mount	Snap-In
Non-Filtered	Single Voltage, Switched	6EL1S	6EL1SC	6EL1SM	6EL1SCM
	4 Voltage Select, No Switch	6EL4	6EL4C	6EL4M	6EL4CM
General Purpose Filter	Single Voltage, Switched	2EDL1S	2EDL1SC	2EDL1SM	2EDL1SCM
		4EDL1S	4EDL1SC	4EDL1SM	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.

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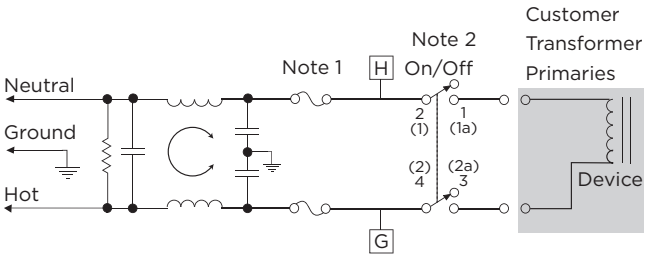
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L Series

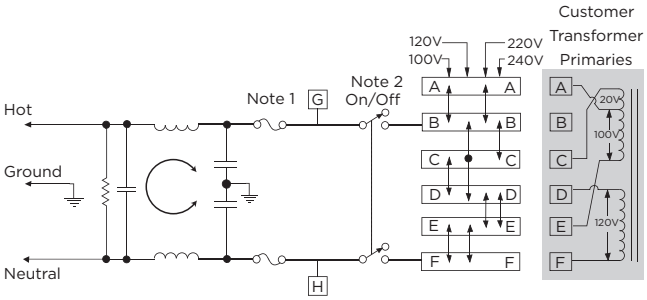
Electrical Schematics

DL Models

Single Voltage, Switched (DL1S)

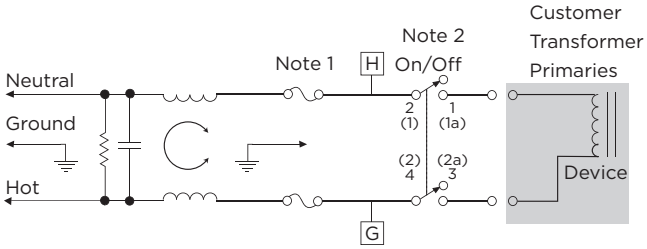


4 Voltage Select, No-Switch (DL4)

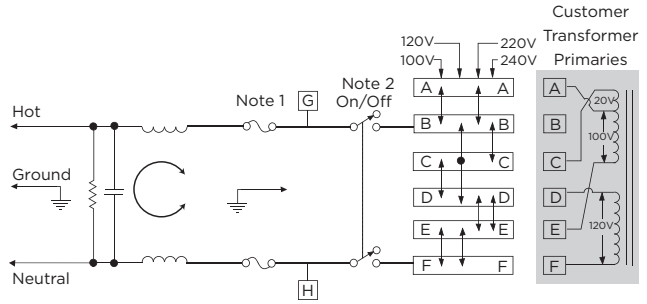


HL Models

Single Voltage, Switched (HL1S)



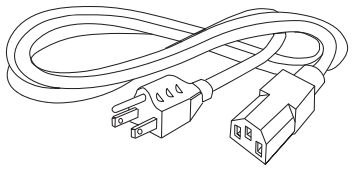
4 Voltage Select, No-Switch (HL4)



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

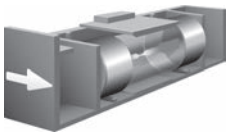
Replacement Fuse Holders

LA200: North American Fuseholder

Accommodates one .25 x 1.25" fuse

LA201: Metric Fuseholder

Accommodates one 5 x 20mm metric fuse



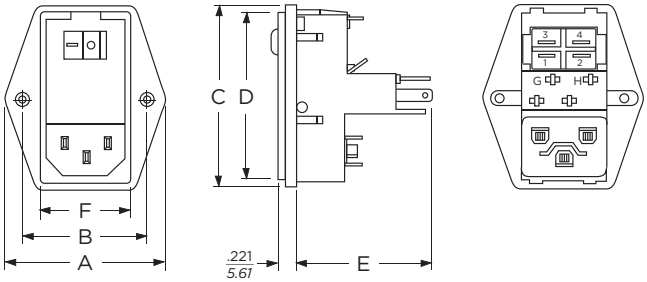
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L Series

Case Styles

Flange Models, Non-filtered

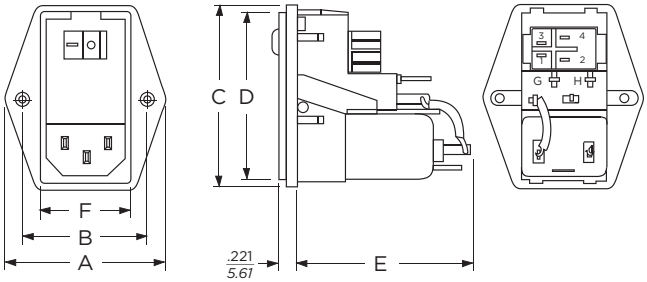


Switched model shown, for non-switched detail refer to snap-in models

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

Flange Models, Filtered

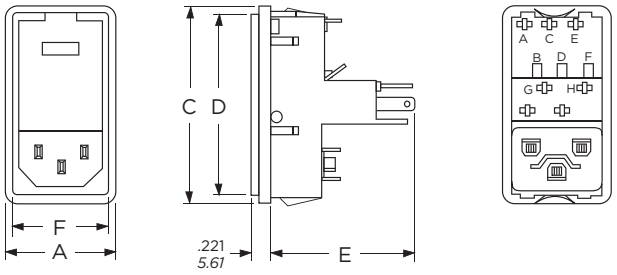


Switched model shown, for non-switched detail refer to snap-in models
Metric fuse models have an additional jumper from filter to module

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

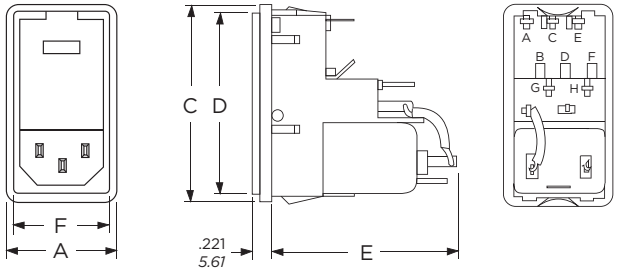


Non-switched model shown, for switched detail refer to flange models

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

Snap-in Models, Filtered



Non-switched model shown, for switched detail refer to flange models
Metric fuse models have an additional jumper from filter to module

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

Case Dimensions

Model No.	A (max.)	B ± .015 / ± .38	C (max.)	D (max.)	E (max.)	F (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*

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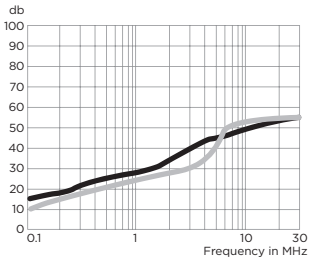
L Series

Performance Data

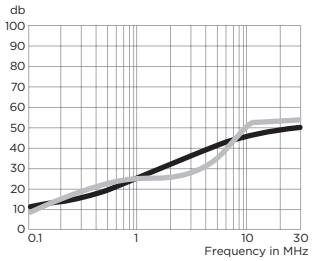
Typical Insertion Loss

Measured in closed 50 Ohm system

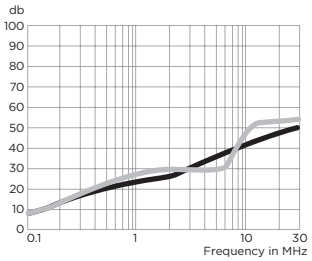
2EDL



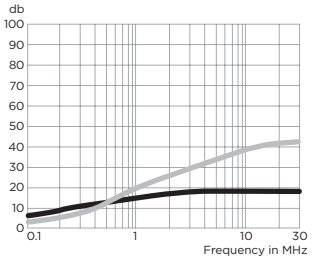
4EDL



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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