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

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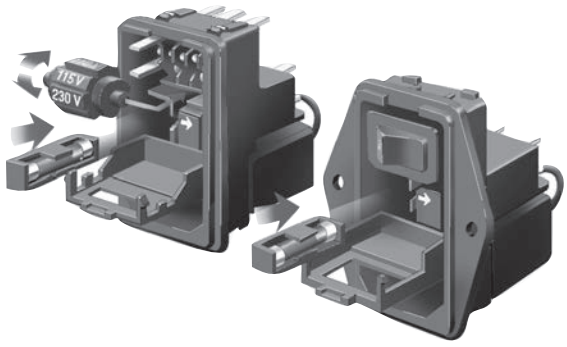
Available Part Numbers

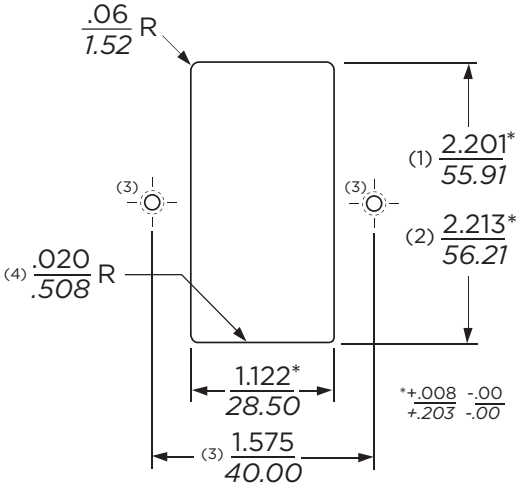
		North American Fusing		Metric Fusing	
		Flange Mount	Snap-In	Flange Mount	Snap-In
Non-Filtered	Single Voltage, Switched	6EL1S	6EL1SC	6EL1SM	6EL1SCM
	4 Voltage Select, No Switch	6EL4	6EL4C	6EL4M	6EL4CM
General Purpose Filter	Single Voltage, Switched	2EDL1S	2EDL1SC	2EDL1SM	2EDL1SCM
		4EDL1S	4EDL1SC	4EDL1SM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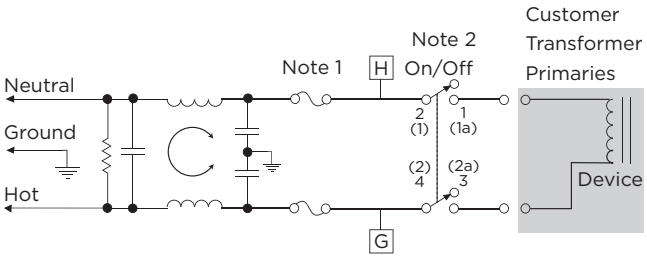
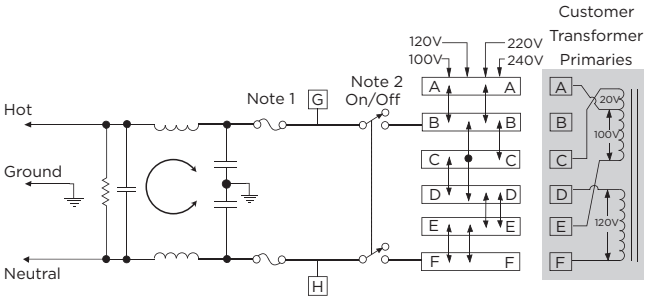
Electrical Schematics

DL Models

Single Voltage, Switched (DL1S)

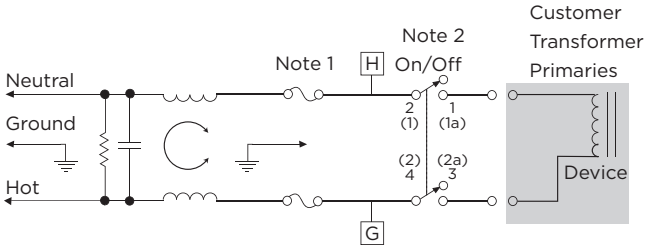


4 Voltage Select, No-Switch (DL4)

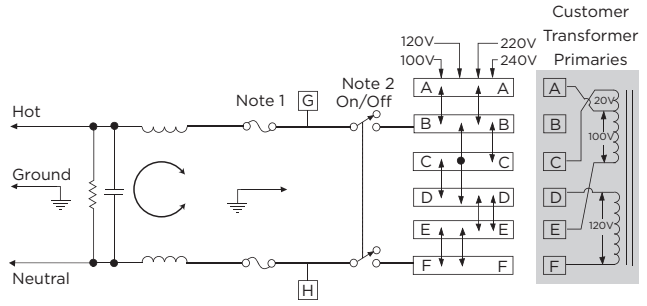


HL Models

Single Voltage, Switched (HL1S)



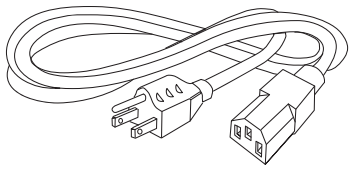
4 Voltage Select, No-Switch (HL4)



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

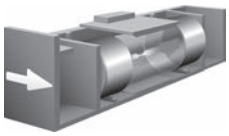
Replacement Fuse Holders

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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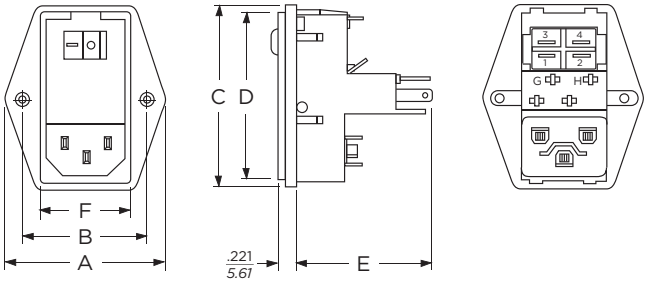
Case Styles

Flange Models, Non-filtered

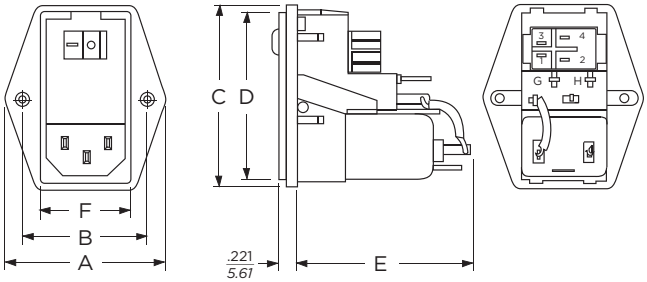


Switched model shown, for non-switched detail refer to snap-in models

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

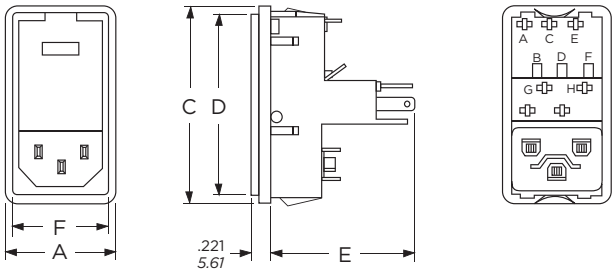


Switched model shown, for non-switched detail refer to snap-in models
Metric fuse models have an additional jumper from filter to module

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

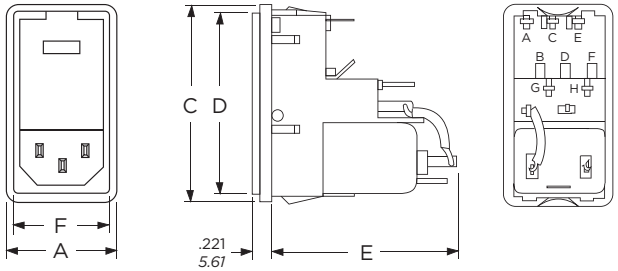


Non-switched model shown, for switched detail refer to flange models

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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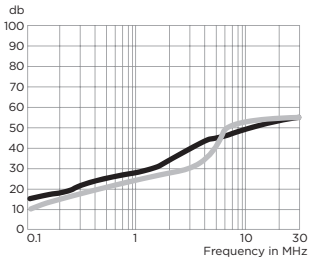
Performance Data

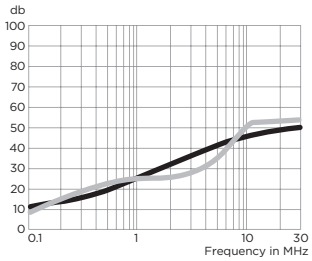
Typical Insertion Loss

Measured in closed 50 Ohm system

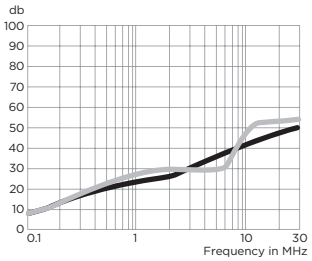
2EDL



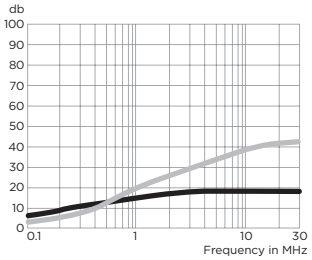
4EDL



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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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9