Power Inlet Line Filter for Medical Equipment

H Series

UL Recognized
CSA Certified
VDE Approved*

H Series

- Minimal leakage current suitable for medical equipment
- Two element circuit provides basic EMI attenuation above 1 MHz
- Available with an internal ground circuit inductor (C suffix versions) to isolate equipment chassis from power line ground at radio frequencies
- Flanged mounting the same as the EC, ED and EF Series
- Capacitive output (see EAH, EBH and EJH Series for capacitive input)

Ordering Information

3 E H 1 C

Ground Circuit Inductor
Omit if none

Output Styles
Chassis Mount Style
1 – .250 [*6.3*] spade terminals
3 – Wire leads
Power Inlet Style
4 – .250 [*6.3*] spade terminals *(back)*
5 – Wire leads *(bottom)*
8 – Wire leads *(back)*
9 – .250 [*6.3*] spade terminals *(bottom)*

H Series

Leakage current designation
E – Low Leakage *(<0.5 mA)*

Current Rating
3, 6, 10 or 15A

**IEC 60320-1 C14 inlet mates with C13 connector*

Specifications

Maximum leakage current each Line to Ground:
@ 120 VAC 60 Hz: 2 µA
@250 VAC 50 Hz: 5 µA

Hipot rating (one minute):
Line to Ground: 2250 VDC
Line to Line: 1450 VDC

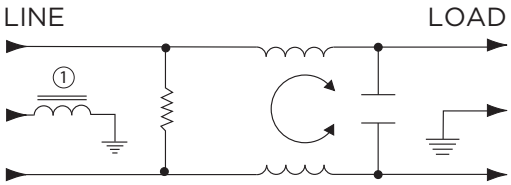
Rated Voltage (max.): 250 VAC

Operating Frequency: 50/60 Hz

Rated Current: 3 to 15A*

Operating Ambient Temperature Range (at rated current I_r): -10°C to +40°C
In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-Ta)/45}$

Electrical Schematic



Available Part Numbers

3EH1	6EH8
3EH3	6EH9
6EH1	10EH1
6EH3	10EH3
6EH4	10EH4
6EH5	15EH4
Ground Circuit Inductor Versions	
10EH4C	

**15A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 10A, 250VAC*

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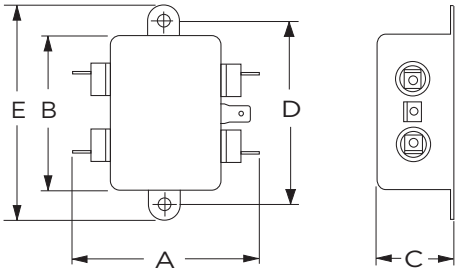
Power Inlet Line Filter for Medical Equipment *(continued)*

H Series

Case Styles

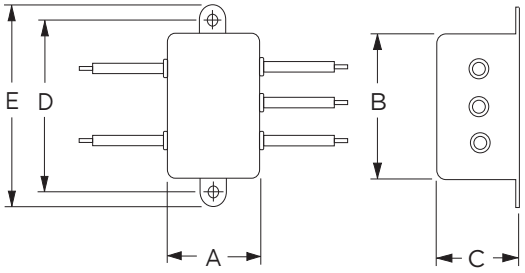
H1 *(Chassis Mount)*



Typical Dimensions:

Mounting Holes:	.188 [*4.78*] Dia.
Load Terminals (4):	.250 [*6.3*] with .07 [*1.8*] Dia. hole
Ground Terminal (1):	.250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot

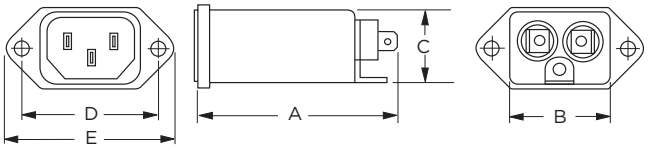
H3 *(Chassis Mount)*



Typical Dimensions:

Mounting Holes:	.188 [*4.78*] Dia.
Wire Leads(5):	4.0 [*101.6*] Min., 18AWG, UL1015

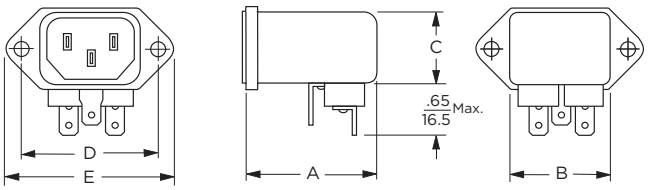
H4 & H4C



Typical Dimensions:

Line Inlet (1):	IEC 60320-1 C14
Load Terminals (2):	.250 [*6.3*] with .07 [*1.8*] Dia. hole
Ground Terminal (1):	.250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot

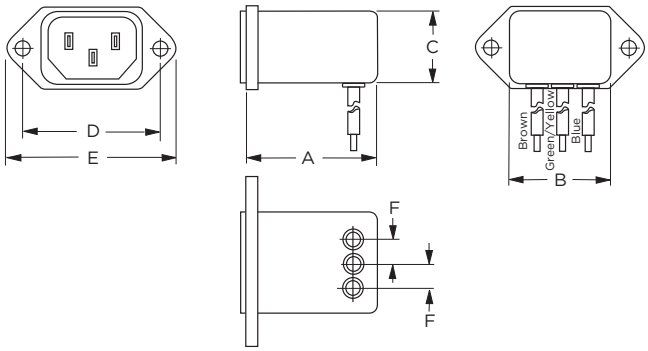
H9



Typical Dimensions:

Line Inlet (1):	IEC 60320-1 C14
Load Terminals (2):	.250 [*6.3*] with .07 [*1.8*] Dia. hole
Ground Terminal (1):	.250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot

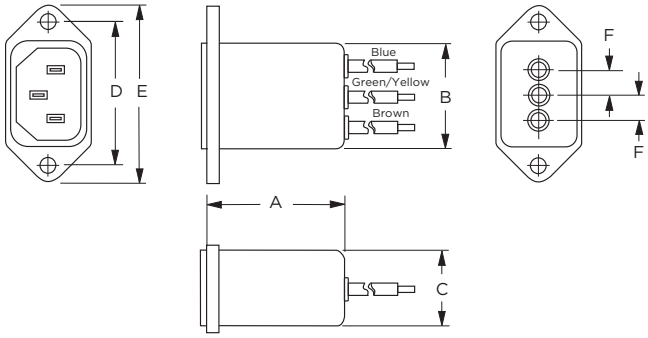
H5



Typical Dimensions:

Line Inlet (1):	IEC 60320-1 C14
Wire Leads:	4.0 [*101.6*] Min., 18AWG, UL1015

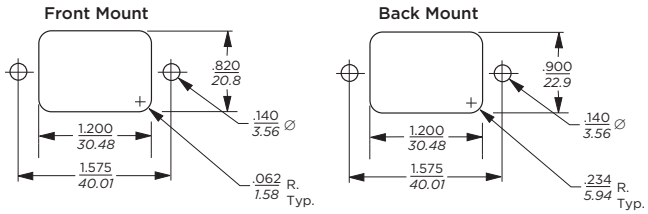
H8



Typical Dimensions:

Line Inlet (1):	IEC 60320-1 C14
Wire Leads:	4.0 [*101.6*] Min., 18AWG, UL1015

Recommended Panel Cutouts



Tolerances ± .005 [*0.13*] unless otherwise noted

Note 1: H4, H4C and H8 allow for front or back mounting
Note 2: H5 and H9 allow for back mounting only

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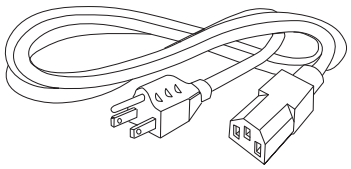
H Series

Case Dimensions

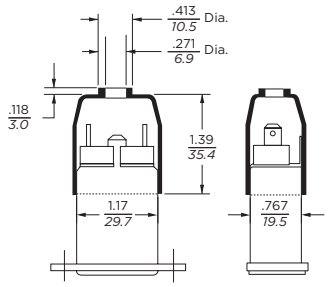
Part No.	A (max.)	B (max.)	C (max.)	D ± .015 / ± .38	E (max.)	F (ref.)
H1	**2.25**	**1.82**	**0.66**	**2.125**	**2.53**	-
	57.2	*46.1*	*16.7*	*53.98*	*64.2*	
H3	**.96**	**1.82**	**0.66**	**2.125**	**2.53**	-
	24.40	*46.1*	*16.7*	*53.98*	*64.2*	
6EH4	**2.20**	**1.19**	**0.81**	**1.575**	**1.98**	-
	55.9	*30.2*	*20.6*	*40.01*	*50.3*	
10EH4, 10EH4C	**2.62**	**1.19**	**0.81**	**1.575**	**1.98**	-
	66.5	*30.2*	*20.6*	*40.01*	*50.3*	
15EH4	**2.62**	**1.19**	**0.81**	**1.575**	**1.98**	-
	66.5	*30.2*	*20.6*	*40.01*	*50.3*	
H5	**1.55**	**1.19**	**0.85**	**1.575**	**1.98**	**.295**
	39.4	**30.2**	**21.6**	**40.01**	**50.3**	*7.5*
H8	**1.56**	**1.19**	**0.81**	**1.575**	**1.98**	**.295**
	39.7	*30.2*	*20.6*	*40.01*	*50.3*	*7.5*
H9	**1.55**	**1.19**	**0.85**	**1.575**	**1.98**	-
	39.4	*30.2*	*21.6*	*40.01*	*50.3*	

Accessories

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



FA601: Insulating Shroud

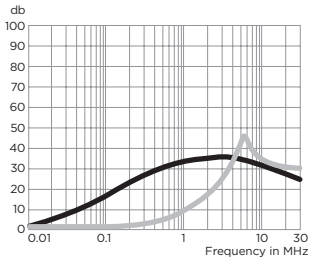


Performance Data

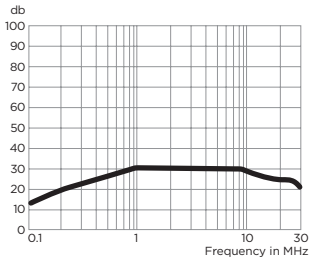
Typical Insertion Loss

Measured in closed 50 Ohm system

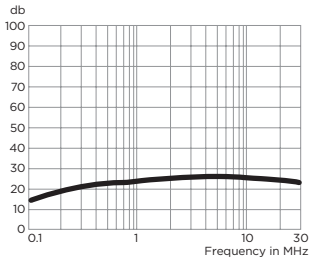
3EH



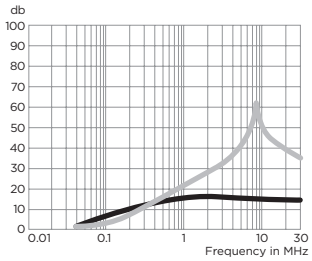
6EH



10EH



15EH



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 .15	.5	1	5	10	30
3A	18	27	30	30	27	18
6A	9	16	20	26	23	18
10A	7	13	15	17	16	14
15A	5	9	11	12	11	9

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