

**Power Inlet Line Filter for Medical Equipment**

**H Series**



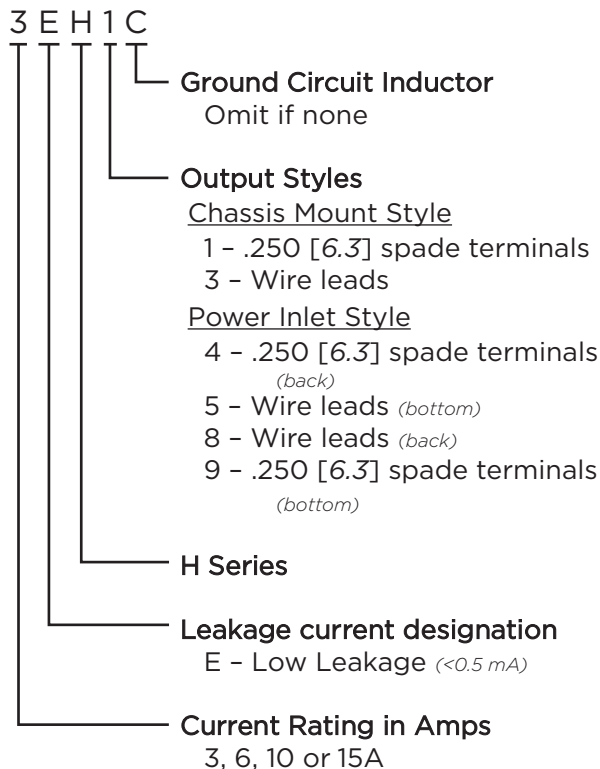
UL Recognized  
CSA Certified  
VDE Approved\*



**H Series**

- Minimal leakage current suitable for medical equipment
- Single stage L 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 EJJ Series for capacitive input)

**Ordering Information**

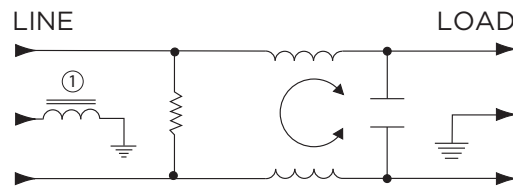


\* IEC 60320-1 C14 inlet mates with C13 connector

**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<sub>r</sub>):** -10°C to +40°C  
In an ambient temperature (T<sub>a</sub>) higher than +40°C the maximum operating current (I<sub>O</sub>) is calculated as follows: I<sub>O</sub> = I<sub>r</sub> √(85-T<sub>a</sub>)/45

**Electrical Schematic**



**Available Part Numbers**

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

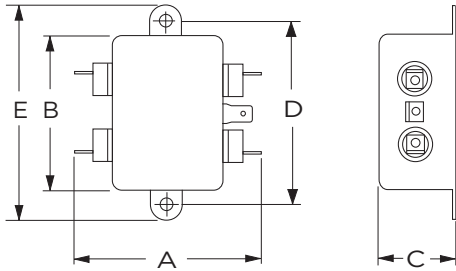
\* 15A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 10A, 250VAC

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

# H Series

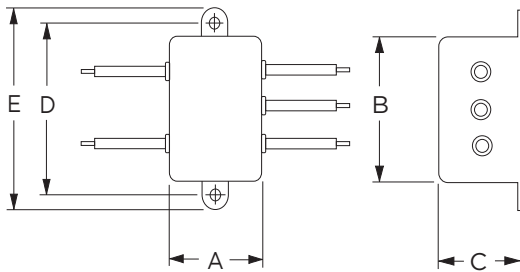
## Case Styles

### H1 (Chassis Mount)



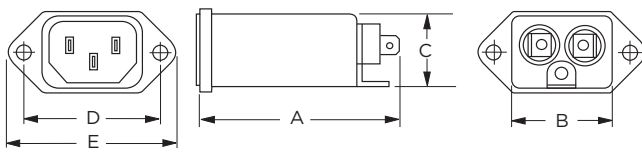
Typical Dimensions:  
 Mounting Holes: .188 [4.78] Dia.  
 Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole  
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

### H3 (Chassis Mount)



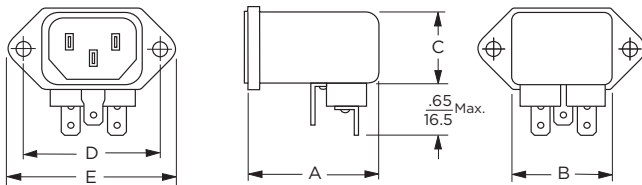
Typical Dimensions:  
 Mounting Holes: .188 [4.78] Dia.  
 Wire Leads(5): 4.0 [101.6] Min., 18AWG, UL1015

### H4 & H4C



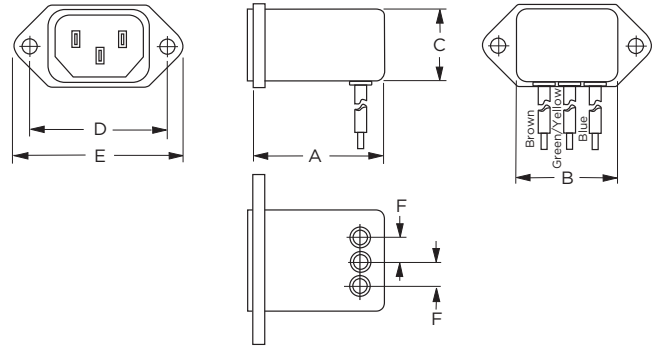
Typical Dimensions:  
 Line Inlet (1): IEC 60320-1 C14  
 Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole  
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

### H9



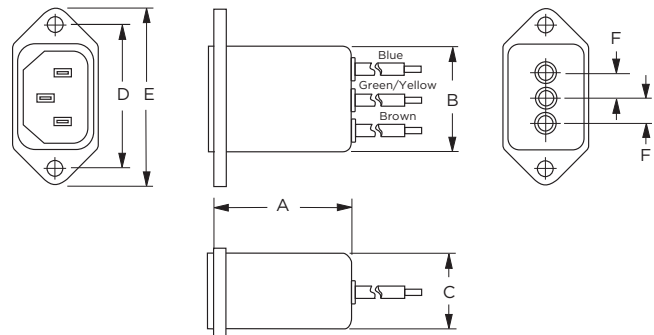
Typical Dimensions:  
 Line Inlet (1): IEC 60320-1 C14  
 Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole  
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

### H5



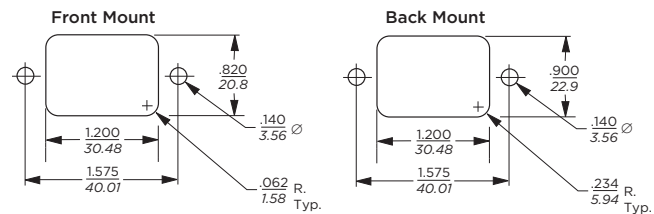
Typical Dimensions:  
 Line Inlet (1): IEC 60320-1 C14  
 Wire Leads: 4.0 [101.6] Min., 18AWG, UL1015

### 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

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

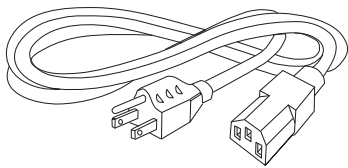
# H Series

## Case Dimensions

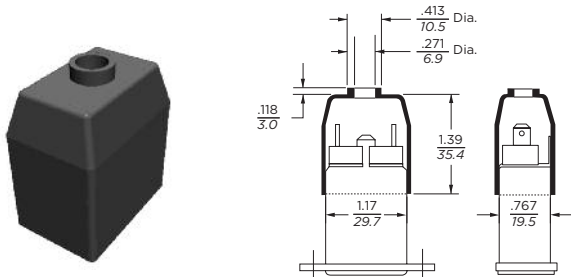
Part. No.	A (max.)	B (max.)	C (max.)	D $\pm .015$ $\pm .38$	E (max.)	F (ref.)
H1	<b>2.25</b> 57.2	<b>1.82</b> 46.1	<b>0.66</b> 16.7	<b>2.125</b> 53.98	<b>2.53</b> 64.2	-
H3	<b>.96</b> 24.40	<b>1.82</b> 46.1	<b>0.66</b> 16.7	<b>2.125</b> 53.98	<b>2.53</b> 64.2	-
6EH4	<b>2.20</b> 55.9	<b>1.19</b> 30.2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

## Accessories

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



FA601: Insulating Shroud

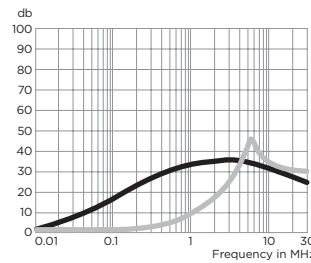


## Performance Data

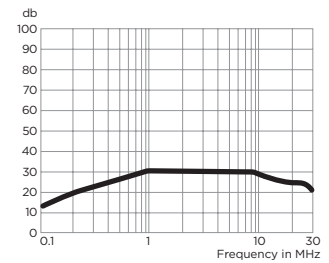
### Typical Insertion Loss

Measured in closed 50 ohm system

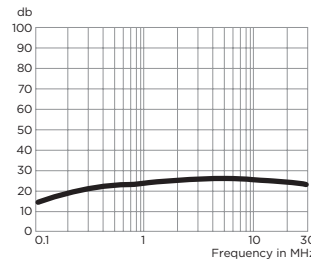
#### 3EH



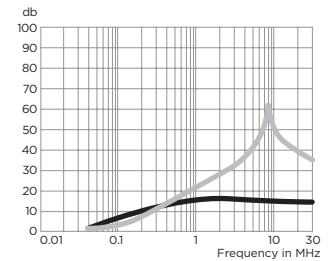
#### 6EH



#### 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