

Catalog: 1654001 Issue Date: 06.2011

#### **High Frequency Power Line Filter or Power Entry Module**

# **AQ** Series



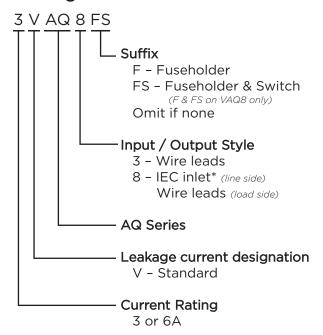
UL Recognized CSA Certified



#### **AQ** Series

- Low cost solution to power line noise at high frequencies
- High common and differential mode performance from 10kHz to 1GHz
- Available with an IEC inlet, fuseholder and switch
- Suitable for applications where computers are used to process secret or confidential information

### **Ordering Information**



#### **Available Part Numbers**

3VAQ3	6VAQ3
3VAQ8F	6VAQ8F
3VAQ8FS	6VAQ8FS

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

## **Specifications**

Maximum leakage current each Line to Ground:

	3A Models	<u>6A Models</u>
@ 120 VAC 60 Hz:	1.2 mA	.7 mA
@250 VAC 50 Hz:	2.3 mA	1.2 mA

Hipot rating (one minute):

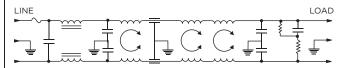
Line to Ground:	2250 VDC
Line to Line:	1450 VDC
Rated Voltage (max):	250 VAC
Operating Frequency:	50/60 Hz

Rated Current: 3 or 6A

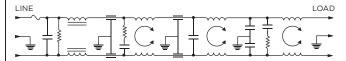
Operating Ambient Temperature Range

(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:  $I_o = I_r \sqrt{(85-T_a)/45}$ 

# Electrical Schematics 3A Models

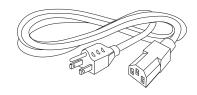


#### **6A Models**



#### **Accessories**

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



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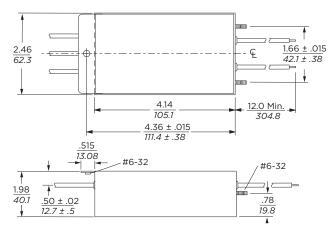


#### High Frequency Power Line Filter or Power Entry Module (continued)

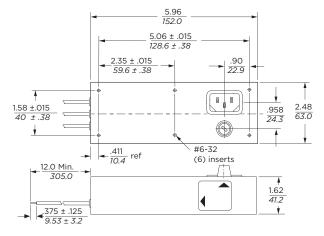
# **AQ Series**

### **Case Styles and Dimensions**

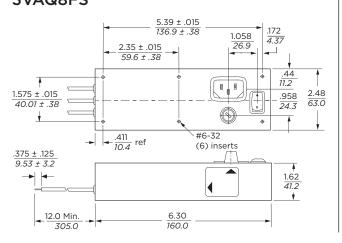
#### 3VAQ3



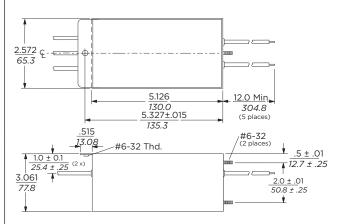
#### 3VAQ8F



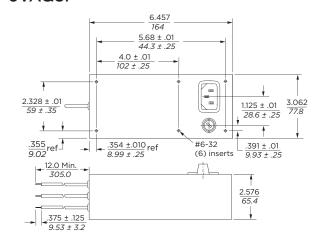
### **3VAQ8FS**



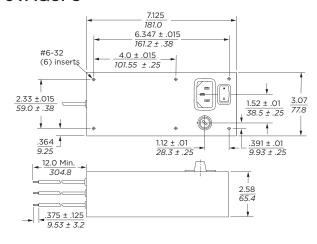
#### 6VAQ3



#### 6VAQ8F



#### 6VAQ8FS



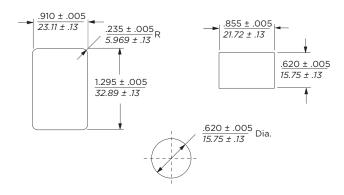


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# **AQ Series**

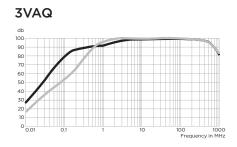
#### **Recommended Panel Cutouts**

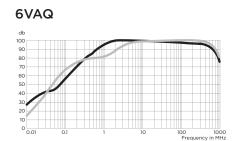


#### **Performance Data**

### **Typical Insertion Loss**

Measured in closed 50 Ohm system





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		Frequency – MHz							
	Rating	.01	.1	.5	1	10	50	100	300	1000
	3A	10	80	88	88	100	100	100	93	85
	6A	26	59	80	80	100	100	100	93	85

Differential Mode / Symmetrical (Line to Line)

Current			F	requ	ency	– MH	Z		
Rating	.01	.1	.5	1	10	50	100	300	1000
3A	6	51	78	88	100	100	100	93	85
6A	10	65	86	95	100	100	100	93	85

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:
6VAQ3 3VAQ3 3VAQ8FS