

## Power Entry Module with Enhanced EMI Filtering

# LA Series



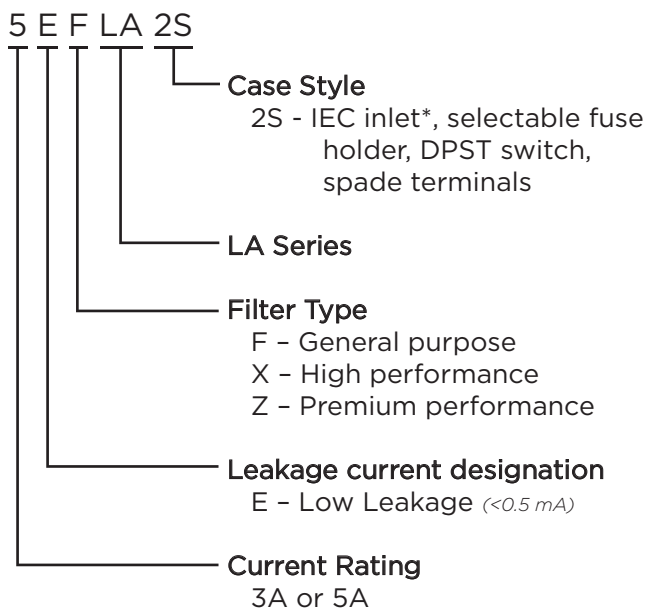
UL Recognized  
CSA Certified



## LA Series

- Power entry module with extended and enhanced low frequency filters
- North American or dual metric fuse holder options
- DPST on/off switch
- 120/240V voltage selection
- The F version provides basic performance two element circuit filter
- The X version provides a three element differential mode circuit with extended EMI attenuation, suitable for meeting FCC Part 15J, Class B conducted emissions limits
- The Z version provides a three element differential mode circuit with enhanced EMI low frequency attenuation, suitable for meeting EN55022 Level B as well as FCC Part 15J limits

## Ordering Information



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

## Specifications

### Maximum leakage current each Line to Ground:

|                 | FLA Model | XLA or ZLA Model |
|-----------------|-----------|------------------|
| @120 VAC 60 Hz: | .25 mA    | .30 mA           |
| @250 VAC 50 Hz: | .50 mA    | .50 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 to 5A

### Required Fuse(s):

one .25 x 1.25" (*not included*)  
or two 5 x 20mm (*not included*)

### Switch:

DPST  
10,000 operations at 51A max. inrush

## Available Part Numbers

|         |
|---------|
| 5EFLA2S |
| 3EXLA2S |
| 3EZLA2S |

**Power Entry Module with Enhanced EMI Filtering** *(continued)*

# LA Series

## Voltage Selection

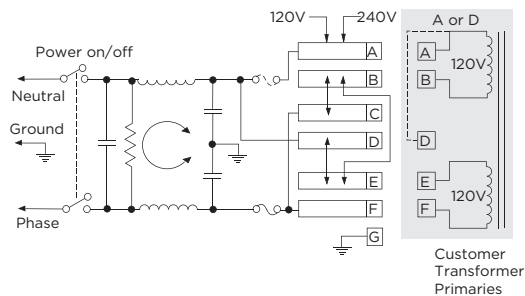
To change selected voltage: remove the fuse cartridge using a small blade screwdriver or similar tool; select the desired voltage by matching the arrow on the fuse cartridge to the arrow located on the front of the unit (lower right corner); replace the fuse cartridge making sure the voltage selection arrow aligns with the arrow located on the front of the unit.

## Changing Fuses

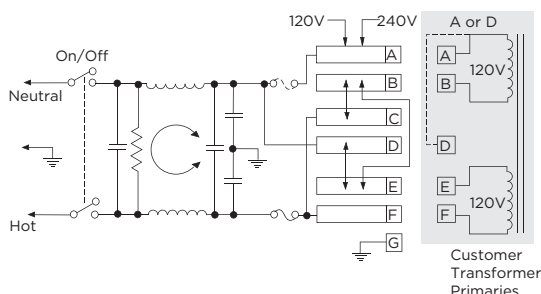
Remove the fuse cartridge using a small blade screwdriver or similar tool; for Metric fusing pull out the sliding fuse covers located at the top of each fuse compartment; insert desired fuses; push the sliding fuse covers back in place and insert the fuse cartridge back into the unit making sure the voltage selection arrow aligns with the arrow located on the front of the unit. (Note: Single North American or Metric fuse placement is always on the side of the desired voltage selection arrow behind the fuse symbol; the other compartment may be used as a spare or be left blank. Dual Metric fusing capability is available for 220/240 volts only.)

## Electrical Schematics

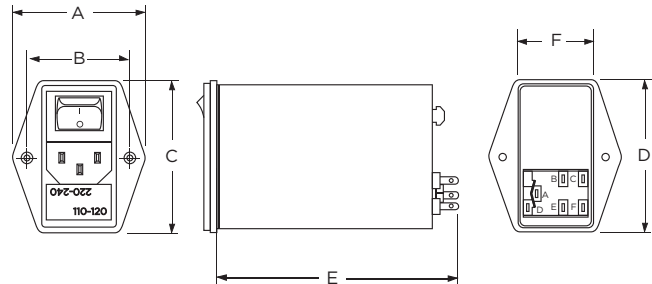
### FLA Model



### XLA & ZLA Model



## Case Styles



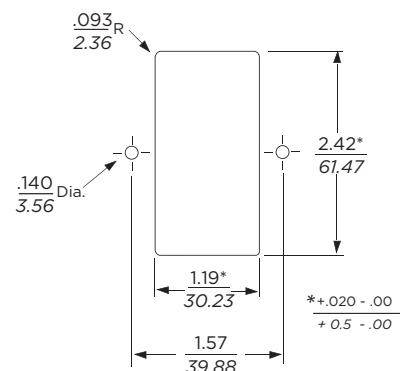
Typical Dimensions:

|                         |                                   |
|-------------------------|-----------------------------------|
| Line Inlet (1):         | IEC 60320-1 C14                   |
| Mounting Holes (2):     | .142 [3.6] Dia.                   |
| Backplate Terminals(5): | .110 [2.79] with .059 [1.5] holes |
| Ground:                 | solder lug tab with wire wrap     |

## Case Dimensions

| Part No. | A<br>(max.)         | B<br>$\pm .015$<br>$\pm .38$ | C<br>(max.)          | D<br>(max.)          | E<br>(max.)          | F<br>(ref.)          |
|----------|---------------------|------------------------------|----------------------|----------------------|----------------------|----------------------|
| 5EFLA2S  | <b>1.99</b><br>50.5 | <b>1.57</b><br>39.9          | <b>2.59</b><br>65.79 | <b>2.41</b><br>61.21 | <b>3.16</b><br>68.07 | <b>1.18</b><br>29.97 |
| 3EXLA2S  | <b>1.99</b><br>50.5 | <b>1.57</b><br>39.9          | <b>2.59</b><br>65.79 | <b>2.41</b><br>61.21 | <b>4.16</b><br>105.7 | <b>1.18</b><br>29.97 |
| 3EZLA2S  | <b>1.99</b><br>50.5 | <b>1.57</b><br>39.9          | <b>2.59</b><br>65.79 | <b>2.41</b><br>61.21 | <b>4.16</b><br>105.7 | <b>1.18</b><br>29.97 |

## Recommended Panel Cutout



## Power Entry Module with Enhanced EMI Filtering *(continued)*

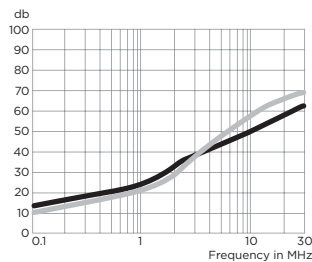
# LA Series

## Performance Data

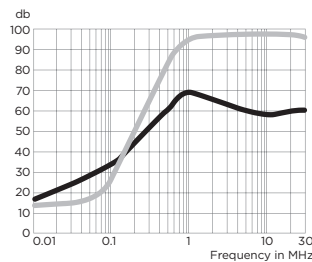
### Typical Insertion Loss

Measured in closed 50 Ohm system

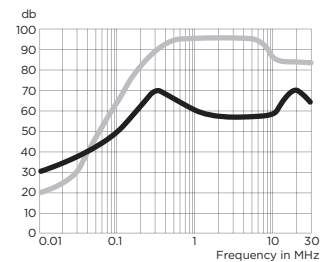
**5EFLA2S**



**3EXLA2S**



**3EZLA2S**



— 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)

| Part No. | Frequency – MHz |     |     |    |    |    |    |    |
|----------|-----------------|-----|-----|----|----|----|----|----|
|          | .01             | .05 | .15 | .5 | 1  | 5  | 10 | 30 |
| 5EFLA2S  | -               | -   | 14  | 21 | 26 | 40 | 46 | 50 |
| 3EXLA2S  | 2               | 12  | 21  | 35 | 46 | 44 | 44 | 40 |
| 3EZLA2S  | 14              | 28  | 38  | 42 | 40 | 40 | 40 | 40 |

### Differential Mode / Symmetrical (Line to Line)

| Part No. | Frequency – MHz |     |     |     |     |    |    |    |    |    |
|----------|-----------------|-----|-----|-----|-----|----|----|----|----|----|
|          | .02             | .03 | .05 | .07 | .15 | .5 | 1  | 5  | 10 | 30 |
| 5EFLA2S  | -               | -   | -   | -   | -   | -  | -  | -  | -  | -  |
| 3EXLA2S  | -               | -   | -   | 5   | 33  | 60 | 65 | 60 | 50 | 50 |
| 3EZLA2S  | 3               | 14  | 29  | 38  | 57  | 72 | 72 | 65 | 55 | 50 |