

## ELECTRONIC SYSTEM PROTECTION

# ESP 5A & 16A

## 5A/BX & 16A/BX System Protection



Combined Type 2 and 3 tested protector (to BS EN 61643- for use on low current (up to 5 or 16A) single phase systems to protect connected electronic equipment from transient over-voltages on the mains supply, e.g. fire/intruder alarm panels. Protectors with /BX suffix come ready-boxed, to IP66, for use in dirty or damp environments. Available for 90-150 volts, 200-280 volts and 232-350 volts supplies. For use at boundaries LPZ 1 through to LPZ 3 to protect sensitive electronic equipment.

### ESP 5A & 16A

- Very low let-through voltage (enhanced protection to BS EN 62305) between all sets of conductors (phase to neutral, phase to earth, neutral to earth – Full Mode protection) allowing continuous operation of equipment
- Repeated protection in lightning intense environments
- Compact size for easy incorporation in the protected system
- Removable DIN rail foot for simple clip-on mounting to top hat DIN rails (unboxed versions)
- Colour coded terminals give quick and easy installation check – grey for the dirty (line) end and green for the clean end
- Available ready-boxed to IP66 for use in dirty or damp environments (protectors with /BX suffix)
- Robust housing and substantial earth stud
- Fixing holes ready for flat mounting
- Maintenance free
- ESP 240-5A/BX has network Rail Approved PA05/02896. NRS PADS reference 087/037285

**Temperature Range:** -40°C to + 80°C

**Connection Type:** Screw Terminal

**Conductor Size (solid):** 4mm<sup>2</sup>

**Earth Connection:** Via Earth Terminal or M6 Stud

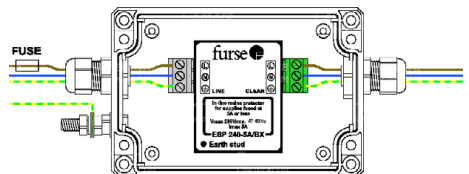
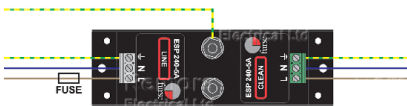
**Volt Free Contact:** Connect via screw terminal with conductor up to 4.0mm<sup>2</sup> (stranded)

**Protection:** IP20 / IP66 Boxed Version

Code	Description	Nom Voltage	Maximum	Working Voltage (RMS)	Current Rating (supply)	Max back-up fuse
		Phase Neutral U <sub>o</sub> (RMS)	Voltage Phase Neutral U <sub>c</sub> (RMS)			
ESP 240 5A	In-Line protector 5A	240	280	200-280 V	5 A or less	5 A
ESP 240 5A/BX	Boxed in-Line protector 5A	240	280	200-280 V	5 A or less	5 A
ESP 240 16A	In-Line protector 16A	240	280	200-280 V	16 A or less	16 A
ESP 240 16A/BX	Boxed in-Line protector 16A	240	280	200-280 V	16 A or less	16 A

• Connect in-line on supplies fused up to 5A (ESP 240 5A) or 16A (ESP 240 16A). Note how the protector can also be earthed from its earth stud.

• Connect in-line on supplies fused up to 5A (ESP 240 5A/BX) or 16A (ESP 240 16A/BX). Note how the protector can also be earthed from its earth stud.



• If your supply is fused at more than 16 Amps the ESP 240 M1 are suitable