## **ELECTRONIC SYSTEM PROTECTION | Earthing & Lightning**

**ELECTRONIC SYSTEM PROTECTION** 



## **ESP D1 Series**

## (Three Phase) System Protection

Combined Type 1, 2 and 3 tested protector (to BS EN 61643) for use on single phase mains power distribution systems primarily to protect connected electronic equipment from transient over-voltages on the mains supply, e.g. computer, communications or control equipment. For use at boundaries up to LPZ 0 to protect against flashover (typically the main distribution board location, with multiple metallic services entering ) through to LPZ 3 to protect sensitive electronic equipment.

## **ESP D1 (Three Phase)**

- . 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)
- · Full mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- · Repeated protection in lightning intense environments
- Innovative multiple thermal disconnect technology for safe disconnection from faulty or abnormal supplies (without compromising protective performance)
- Three way visual indication of protection status and advanced pre-failure warning so you need to be unprotected
- ESP XXX D1R or ESP XXX D1R/LCD units (where XXX = 208, or 415, or 480) have a remote display that allows the protector to be mounted close to the incoming feed or distribution board with the display being mounted in a visible position e.g. at the front of the panel
- ESP XXX D1/LCD or ESP XXX D1R/LCD units have a backlit LCD intelligent display offering clear status information that can be rotated for the side mounting to facilitate short connecting
- Flashing warning of potentially fatal neutral to earth supply faults (due to incorrect earthing, wiring errors or unbalanced conditions)
- Through terminal facility allows series connection on low current supplies to eliminate high additive voltage associated with the connecting leads on units installed in parallel
- · Compact space saving DIN housing

Short Circuit Withstand Capability: 25 kA, 50 Hz

Frequency Range: 47-63 Hz Max. Back-up Fuse: 125 A Leakage Current (to earth): <250 µA Indicator Circuit Current: <10 mA

Volt Free Contact2: Screw Terminal / Current rating 1 A / Nominal Voltage (RMS) 250 V

Temperature Range: -40°C to + 80°C

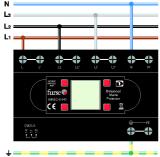
Connection Type: Screw Terminal (Max Torque 4.5Nm) Conductor Size (stranded): 25mm<sup>2</sup>

Earth Connection: Screw Terminal (Max Torque 4.5Nm)

with remote display

Volt Free Contact: Connect via screw terminal with conductor up to 1.5mm² (stranded) Display (D1R& D1R/LCD Version): HD-D Type 1 Metre Interconnection Cable 2 Metre action Cable (ESP DLA UD 4

Protection: IP20							
		Nom Voltage	Max Voltage	Temporary			
		Phase Neutral	Phase Neutral	Overvoltage	Working	WBX Enclosure	
Code	Description	Uo (RMS)	Uc (RMS)	TOV U 1	Voltage (RMS)	Size	Weight (Kg)
ESP415D1	Three phase, full mode	240 V	280 V	350 V	200 - 280 V	WBX D8	0.85
ESP415D1R	Three phase, full mode	240 V	280 V	350 V	200 - 280 V	WBX D8	1.10



 Parallel Connection ESP 415 D1 (fuses not shown for clarity)

Call the Remora sales team at 01226 352 000

Heatshrink Repair

Cable Jointing

Junction Boxes

Gland Accs.