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 lighting currents as well as allowing continual operation of protected equipment
- · Repeated protection in lighting 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
- Remote indication facility allows pre-failure warning to be linked to a building management system, buzzer or light
- Changeover active volt-free contact enables the protector to be used to warn of phase loss(i.e. power failure, blown fuses etc)
- 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)

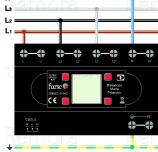
Conductor Size (stranded): 25mm²

Earth Connection: Screw Terminal (Max Torque 4.5Nm)

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 Cable (ESP RLA HD-2) or 4 Metre Cable Interconnection Cable (ESP RLA HD-4) optional

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 D4 | 0.85 |
| ESP415D1R | Three phase, full mode with remote display | 240 V | 280 V | 350 V | 200 - 280 V | WBX D4 | 1.10 |



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

Call the Remora sales team at 01226 352 000

157

Accs.

Tooling

Jointing

Conduit

Fixing & Security