

# Multi Service Distribution Boards

## J type vertical 45 way, 1 J, 630A rated

### Overview and Presentation

Mild steel wall mounting distribution boards for 3 phase systems with a single incoming bank of triple pole J tupe slotted tag fuses.



Right Hand supply

### Features

- Multi-tier outgoing fuse ways provide increased space for cabling
- Factory options include;
  - Left or Right hand incoming supply
  - 4 core incoming/outgoing cable kit
  - N/E bar located at top or bottom of enclosure to suit top or bottom entry options
- Site configurable for CNE or SNE cable systems
- M12 fixings for incoming connections and internal busbar links
- Pre-drilled removable gland plate fitted with closed cell foam sealing gasket
- Removable double doors to facilitate fitment in shallow riser cupboards
- Accept up to 300mm<sup>2</sup> 3 or 4 core aluminium or copper conductors
- Optional glanding kit for different cable types e.g. copper screened, aluminium or steel wire armoured

**Note:** The equipment described on this data sheet must be installed by suitably qualified personnel according to applicable Local / National Wiring regulations currently in force.

## Low Voltage - Cut Outs

### Enclosure specification

- Oven-cured epoxy powder coated finish with a minimum thickness of 50 microns
- Standard colour Admiralty grey to BS 381C shade No 632
- Two stage padlockable double doors enabling independent access to outgoing 100A fuse ways or Distribution Network operator (DNO) access to incoming J type fuses
- Quick release spring loaded hinge pins permit rapid door removal for improved access
- Overall 250mm depth enables installation in confined spaces
- Two external M12 earth studs

### Internal equipment

- Operator protection IP2XB (all screens, shrouds and fuse handles in place)
- Equipped with BS 7657 100A rated SP outgoing ways (BS 88 30 x 57mm cylindrical cartridge fuses, not supplied)
- Serrated cable bores in 100A outgoing ways accept up to 35mm<sup>2</sup> solid or stranded conductors
- Neutral and Earth bars fitted with twin hexagon drive M8 cable pinching screws per terminal
- Termination kit for 4 core cable with 95mm<sup>2</sup> to 300mm<sup>2</sup> mechanical shear-off connectors specifiable at point of order
- Above terminals will accept solid aluminium or stranded copper conductors, Waveform or SWA type cables (additional kit required for each SWA termination)
- BS 88 J type slotted tag fuses with 92mm<sup>2</sup> fixing centres fitted on incoming phases
- Fully rated Neutral and Earth bars

### Construction

- Enclosure ..... Zinc coated mild steel 1.2mm thick
- Busbars ..... Electro-tin plated copper
- Terminal blocks ..... Brass
- Terminal shields... Transparent polycarbonate
- J type fuse holders ..... Glass reinforced Polybutylene Terephthalate (PBT)
- J type fuse bases ..... Glass reinforced polyamide 6

### Performance data

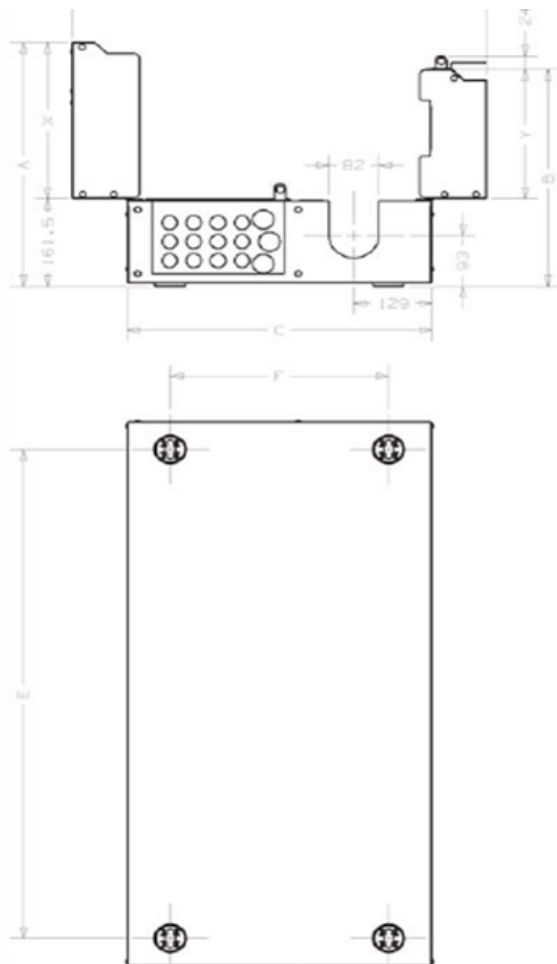
- Incoming supply ..... 630A max
- Busbar rating ..... 630A nominal
- Supply voltage ..... 415V a.c
- Frequency ..... 50-60Hz
- Rated insulation voltage ..... 690V a.c
- Short circuit withstand strength ..... 18kA for 1 second
- Operator protection
  - All shrouds and fuse handles in place..... IP2XB
  - Operational condition, both doors closed.. IP3X
- Recommended N/E bar terminal torque..... 3.5Nm

### Conformity to standards

- Third party tested to BS EN 60439-1 (Form 4 compliant)
- Complies with draft ENA Technical Specifications for MSDBs
- IP rating according to BS EN 60529
- Incoming fuses ..... BS 88 J type
- Outgoing fuseways to BS 7657:1993

### Weight (excluding fuses)

- 1J Ex works net weight ..... 74kgs



Height: 1000mm, Case closed depth: 248mm

Dimensions in mm								
Configuration	X	Y	C	D	A	B	E	F
45 way 1J	749	235	967	1150	911	397	900	769

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