

# Multi Service Distribution Boards

## J Type Vertical

### 630A rated

15 way, 1J and 2J types



### Overview and presentation

- Mild steel wall mounting distribution boards for 3 phase systems configurable with either a single incoming bank of triple pole J type slotted tag fuses or with an additional outgoing bank of triple pole J type fuses for mixed developments requiring a split supply greater than 100A



1 J version (RH supply)



### Features

- Multi-tier outgoing fuse ways provide increased space for cabling
- Factory options include;
  - Left or Right hand incoming supply
  - Single or twin bank of triple pole J type fuse links
  - 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.



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## 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 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 re-inforced polybutylene Terephthalate (PBT)
- J type fuse bases..... Glass re-inforced 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 fuse ways to BS 7657:1993



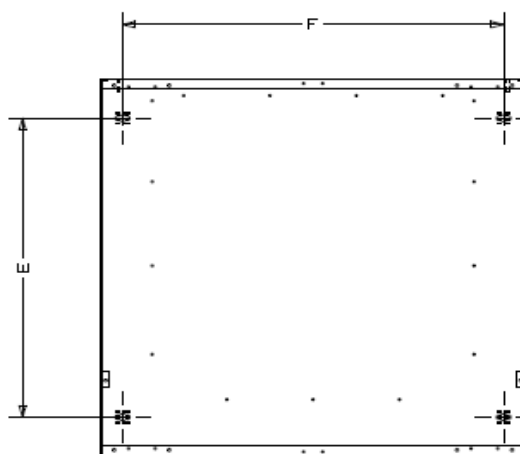
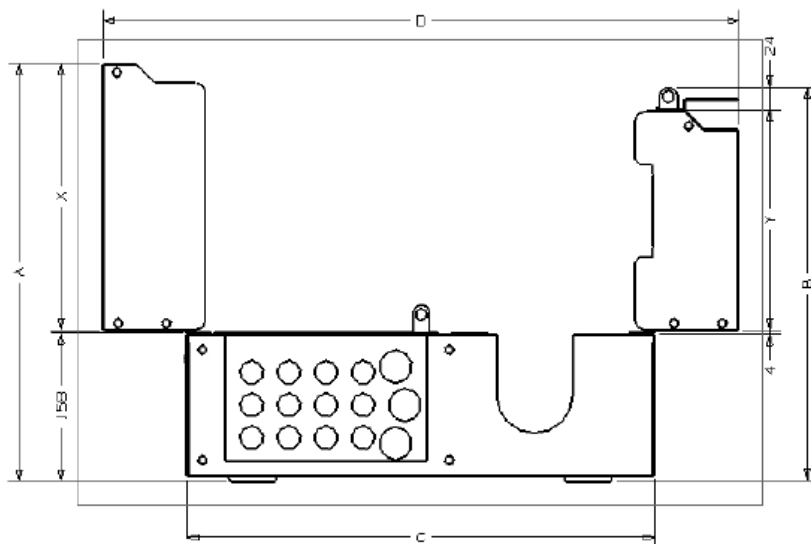
## Weight (excluding fuses)

- 1J Ex works net weight.....44kgs
- 2J Ex works net weight .....58kgs

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## ▶ General arrangement and dimensions



Height : 1000mm

Configuration	Dimensions in mm						Fixing centres		
	X	Y	C	D	A	B	E	F	
15 way 1J	285	235	503	685	447	397	900	299	
15 way 2J	285	442	710	893	447	604	900	537	
Case closed depth : 248mm									

### Disclaimer

Lucy Switchgear has a policy of continuous research and development and accordingly reserves the right to change the design and specifications of its products without prior notice or liability.

#### Lucy Switchgear

Howland Road, Thame,  
Oxfordshire, OX9 3UJ, UK  
Tel: +44 (0) 1844 267267

Fax: +44 (0) 1844 267223

Email: sales@lucyswitchgear.com

#### Lucy Middle East

PO Box 17335, Jebel Ali,  
Dubai, United Arab Emirates

Tel: +9714 883 2110

Fax: +9714 883 2113

Email: sales@lucyme.ae

#### The Saudi Lucy Company Ltd

PO Box 834, Al-Khobar,  
31952, Saudi Arabia

Tel: +966 3 8823057

Fax: +966 3 8822553

Email: info@saudilucy.com

