

Technical Datasheet

Multi Service Distribution Board Horizontal 7, 10 or 16 Way, 315A Rated

Overview

Mild steel wall mounting distribution board with a horizontal configuration suitable for direct connection to supply networks. Factory fitted with 100A rated single pole outgoing fuse ways.



16-way Version Shown With Cover Removed

Features

- Completely removable cover giving full access to board internals
- Powder coated sheet steel construction
- Optional 4-core incoming cable kit
- Site configurable for CNE or SNE cable systems
- M12 fixings for incoming connections and internal busbar links
- Closed cell foam bushing to seal around outgoing cables
- Labelling facility for incoming phases and outgoing circuits
- 3 position entry for incoming supply cable
- Internal transparent screens over incoming and outgoing cable compartments
- 4 keyhole fixing points on raised bosses to compensate for surface irregularities
- Dual padlocking points on cover to prevent unauthorised access
- Optional gland kits for different cable types e.g. copper screened, aluminium or steel wire armoured

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

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Construction

- Enclosure.....Zinc coated mild steel 1.2mm thick
- Busbars.....Electro-tin plated copper
- Terminal blocks.....Brass
- Terminal shields.....Transparent polycarbonate

Performance

- Incoming supply.....315A nominal
- Busbar rating..... 400A nominal
- Supply voltage.....415V a.c.
- Supply frequency..... 50-60Hz
- Rated insulation voltage.....690V a.c.
- Short circuit withstand current...10kA for 1 second
- Recommended N/E bar terminal torque.....3.5Nm

Operator Protection

- All shrouds and fuse handles in place.....IP2XB
- Operational condition, both doors closed....IP3X

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
- Overall 250mm depth enables installation in confined space
- Two external M12 earth studs

Conformity to Standards

- Third party tested to BSEN 60439-1 (Form 4 compliant)
- Complies with draft ENA Technical Specifications for MSDB's
- IP rating to BSEN 60529
- Outgoing fuse ways to BS 7657:1993

Dimensions

See dimensions on the general arrangement diagrams.

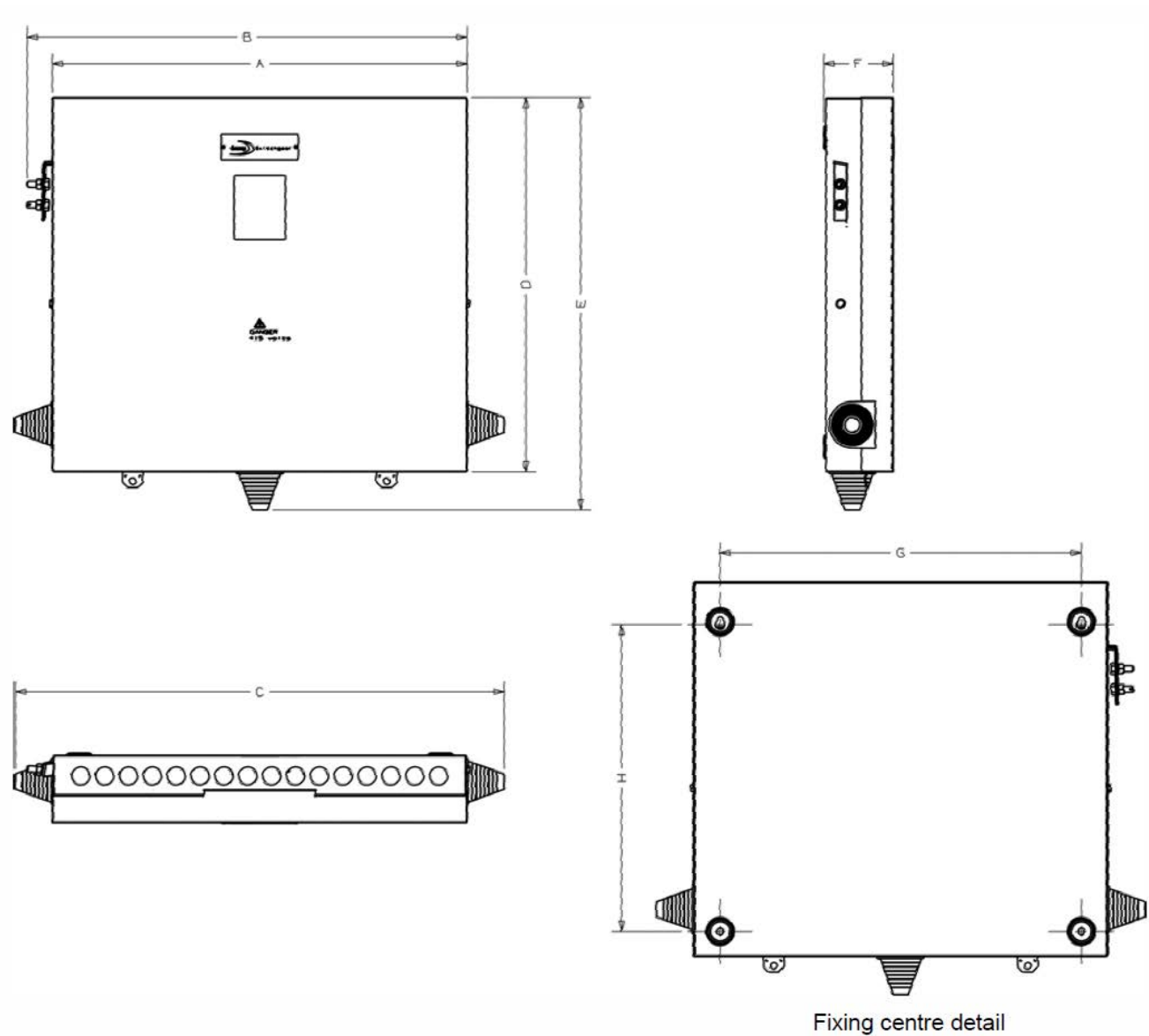
Weight

- 7-way net weight.....24.5kg
- 10-way net weight.....26kg
- 16-way net weight.....30kg

Internal Equipment

- 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 accepts up to 35mm² 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 95mm² to 300mm² mechanical shear-off connectors specifiable at point of order
- Termination kit terminals will accept solid aluminium or stranded copper conductors, Waveform or SWA type cables (additional kit required for each SWA termination)
- Fully rated Neutral and Earth bars

General arrangement diagrams
(dims in mm)



Configuration	A	B	C	D	E	F	G	H
7 - Way	290	451	n/a	592	665	135	285	488
10 - Way	529	592	672	726	800	135	424	628
16 - Way	807	857	875	725	798	135	703	595

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