

AcuLok TMO

LV fused distribution cabinets 4, 5 and 6 ways
Busbar ratings: 800A and 1600A

Overview and presentation

Transformer mounted distribution cabinets designed and tested to ENATS 37-2 Issue 4 having up to 6 outgoing fuse ways suitable for outdoor installation. Units incorporate an independent manual spring assisted disconnecter per phase, metering equipment and fully shrouded AcuLok BS88 fuse handles in the fuse ways.



Features

- Designed for direct mounting to EA 35-1 transformers via 'F' type flange
- Independent manual spring assisted switch disconnecter rated at 800A or 1600A with load make, load break capability
- Can be equipped with Moulded Case Circuit Breakers (MCCBs) up to 1250A
- Version with upgraded busbars designed to accept Air Circuit Breakers (ACBs) up to 2500A
- Positive disconnecter link indication
- Digital multi function meter fitted as standard
- Integral 2000/5 metering class CL0.5 CTs
- Veam Powerlock 660A generator connections
- RCD protected 13A socket outlet for test equipment
- Interior light (optional extra)
- Fully shrouded AcuLok outgoing fuse handles with automatic preset clamping mechanism
- Fuse handles accept BS88 J type 92mm fuse links up to 630A rating (Temperature rise for 630A test carried out at 90% loading with 300mm² aluminium conductors)
- 50% rated neutral. (Fully rated neutral available)

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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Features (continued)

- 3 phase, 4 wire system
- Facility for insertion of Rogowski coils in fuse handles with unit fully energised
- Choice of three outgoing termination positions on fuse stalks
- Fully load bearing cable clamp for each outgoing cable

Enclosure

- Oven-cured epoxy powder coated finish with a minimum thickness of 50 microns
- Pre-galvanised sheet steel enclosure
- 2mm thick panels and door increasing to 3mm in the area of the transformer flange
- 8mm thick steel at flange joint
- 450mm height to top of cabinet from centre of flange
- Standard colour RAL 7032

Switch disconnect

- Independent manual 800A or 1600A mechanism with removable handle and lock off facility
- Replaceable cassette mechanism

Fuse handle

- Factory preset clamping pressure
- Patented cam clamping design prevents handle being closed unless unit is fully inserted
- Accept BS88 tag fuses up to 630A with 92mm centres
- Fuse not part of the mating contact
- Test probe access
- 4mm Banana test plug connections

Fuse way

- One piece assembly pivots into place
- Accepts cables up to bunched 185mm² or 740mm² singles
- Single or multiple core mechanical clamp or compression cable termination options
- Full segregation between phases

- Traffolite circuit label per fuse way
- Suitable for use with Kelman Fusemate and Rezap testers
- Option for double width (ganged) fuseways
- Compatible with Veam fuse handles

Construction

- Enclosure..... Pre-galvanised mild steel
- Fuse ways / disconnecter.....Mineral filled polyamide
- Busbars Electro-tin plated copper
- Mechanical connectors (P+N) Aluminium
- Mechanical connectors (E)..... Brass
- Terminal shields Clear polycarbonate
- Bolts for busbar fixing Zinc plated steel

Performance data

- Incoming supply up to 1600A
- Busbar ratings800A and 1600A nominal
- Operating temperature range.....-25 to +40 degrees C
- Rated operational voltage 230/400V a.c.
- Frequency..... 50-60Hz
- Rated insulation voltage 690V a.c.
- Short circuit withstand strength
 - Complete cabinet..... 35.5kA for 3 seconds
 - Fuse handle only 18kA for 3 seconds
- Short circuit current at peak 74.6kA
- Operator protection
- Door open, all shrouds fitted IP2XB
- Operational condition, door closed. IP34D
- Vermin proof to IP3X
- Disconnecter Category of Duty AC22B

Standards / Conformity

- ENA approved to 37-2 Issue 4
- IP rating according to BSEN 60529
- Switching performance to IEC 60947-3

Dimensions (mm)

- Height (all variants)..... 1550mm
- Depth (all variants) 710mm
- Widths(see over)

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General arrangement and dimensions (mm)

Cabinet widths

- 4 way 664mm
- 5 way 814mm
- 6 way 964mm

Cabinet weights

- 4 way 222kgs
- 5 way 285kgs
- 6 way 330kgs



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