

# 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 300mm<sup>2</sup> 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.

## Low voltage - Cut outs - AcuLok TMO

### 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 disconnecter

- 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 185mm<sup>2</sup> or 740mm<sup>2</sup> 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 ratings .....800A 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)

## Low voltage - Cut outs - AcuLok TMO

### 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