TDS 09-035 Rev 4



Current Transformer Metering Chamber (СТМС) Direct coupled to Lucy Heavy Duty Cut Outs

Overview and Presentation

All-insulated polyphase LV metering chamber directly coupled to either the Lucy 200A, 400A or 600A Heavy Duty Cut Outs fitted with cable trough and mounted on a fire retardant plywood back board. Metering chamber module can also be sourced as a retrofit option for assembly to Lucy Heavy Duty Cut Outs already in service. An intermediate coupler kit is required for the 200A version to enable connection to the CT chamber.





(Meter in photos above not supplied)

Features

- Factory configured one piece assembly mounted on 18mm plywood from Forestry Stewardship certified sources
- · Accepts up to two polyphase meters with ISO mountings
- Outgoing cabling options:
 - Range taking mechanical leader clamps, two per phase (refer to Product characteristics for capacities)
 - Compression cable lugs on to pre fitted M16 studs
- Two sealable and lockable sequentially opening doors to segregate CT / busbar side from meter connection side
- Single standard tri- head meter key on outer door plus 2 additional sealing points on each of the other doors
- Bolted busbars between HDCO and CTMC
- Pre-fitted single ratio metering class CL 0.5 CTs (200/5, 400/5 or 600/5 according to the fuse rating of the HDCO)
- DIN rail mounted voltage potential fuses
- Industry standard modular test block MOCOP 5 configuration with Wago rail mounted terminals

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

Construction

•	Enclosure	Glass filled polyamide 6
•	Internal busbars	Electro-tin plated copper
•	Clear busbar shields	Polycarbonate
•	Modular fuse carriers	Glass filled polyamide 6
•	Busbar connection fixtures.	Passivated mild steel
•	Rail mounted terminals	Polyamide 6
•	CT mouldings	Polycarbonate

Door closure compotency

- Outer door Standard tri-head lock plus combi-head
- Inner chamber access......Combi-head screws
- Inner and outer doors independently sealable with 2mm wire

CT specification

•	Meter class	CL0.5
•	Rated burden	5VA

• CT continuous current rating ... 1.2 x rated current

Performance data

•	Rigid busbar rating (400/600A) 630A nominal
•	Flexible busbar rating (200A) 250A nominal
•	Supply voltage240 / 415V a.c.
•	Frequency50Hz
•	Rated insulation voltage 690V a.c.
•	Enclosure flammabilityV2, self extinguishing
•	30 seconds at 960 degrees C
•	Operator protection CT chamber only;
•	Installed condition, doors closed IP4X
•	Doors open, all shrouds in place IP2X
•	Operator protection HDCO (covers on) IP3X

Outgoing terminal torques

(Tyco Leader clamps)

•	200A unit (6mm hex drive)	12-15Nm
•	400/600A units (6mm hex drive)	22-25Nm

Product Characteristics

•	Fuse centres 200A/400A	83mm
•	Fuse centres 600A	92mm
•	Cable csa 200A (incoming)(outgoing)	
•	Cable csa 400A (incoming)(outgoing)	
•	Cable csa 600A (incoming)(outgoing)	

Backboard (when supplied)

- Insulated board18mm treated plywood, fire retardant Euro Class C
- Mounting brackets..... Stainless steel

Standards / Conformity

- IP rating to BSEN 60529
- CE approval for Current Transformers
- Current Transformers conform to IEC 60044-1, BS 7626 and IEC 185
- Backboard fire retardant to Euro Class C and BS 476 Part 7

Dimensions

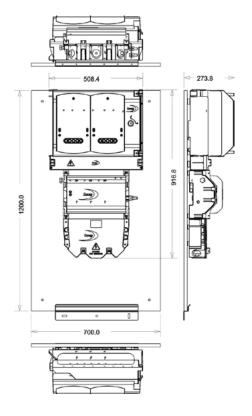
Complete CTMC, HDCO and trough assembly, board mounted

Board height1200mm
• Board width700mm
Board thickness
• Unit height (600A)1100mm
• Unit width (600A)508mm
• Unit depth (600A)256mm
 Recommended height AGL for cable entry into trough when fitted to backboard300mm
Fixing points4
Weight (without fuses)55kgs

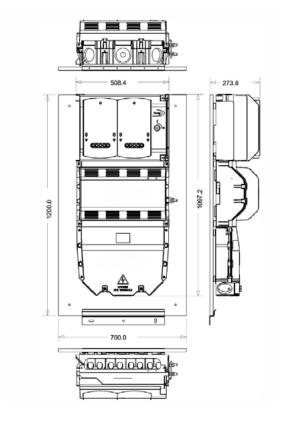


General arrangement and dimensions (mm)

Low Voltage - Cut Outs



200 A HDCO with trough



600 A HDCO with trough

Note: 400A HDCO is the same size as 600A unit and can be fitted with either the 600A or the smaller 400A trough (not shown).

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

