

# New Combined Cut-Out & Current Transformers (CT) Chamber

## Scope

UK Power Networks will be using a new CT chamber. The combined CT chamber is rated for installations of up to 400Amps.

**Approved Equipment Manufacturer:** Schneider Electric Details available in [ECS 13-0080](#).

## Equipment Details

National/International Approvals: IEC 60439-5, ENA 37.2

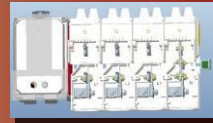
Ducting sizes: For 95ew and 185ew cables up to 40m – 125mm Twin Wall Rigid Ducting to be used and for 300ew cables - a minimum Duct dimension of 125mm Twin Wall rigid ducting is acceptable.

Please see [EDS 08-0143](#) for further details.

### 1. Equipment particulars

#### Chamber in Two Parts

Item 1 – Main cut-out body including cable terminals and meter box. Weight 15kg.



#### Chamber in Two Parts

Item 2 – Front cover, fuse handles, bottom terminal covers, 3x blanking discs, incoming cable grommet and cable box.



#### Cable Range

##### Top Terminations

Two terminations per phase of (Sicame – UMT300 (shear head connector).

1, Not suitable for BS 6231 Tri-Rated cable OR

2, Arctic Grade Cable, Flexible Cable to BS6004 & BS EN 50265



#### LV Cable Range

1x (70mm<sup>2</sup>–300mm<sup>2</sup>) solid aluminium sectorial conductors. Or

1x (70mm<sup>2</sup> – 300mm<sup>2</sup>) stranded conductors.



#### 1.1 Metering - useful for MOP and suppliers

The metering enclosure is designed to accommodate three different types of meters. These include the Secure Premier, Elster A1700 and the Elster A1120/40.



Premier meter



Elster A1700



Elster A1120/40

## Disclaimer

The following information is for guidance purposes only.

**Trunking:** The trunking is to be supplied and fitted by the customer to BS EN 50085. (see table below for sizes of trunking required). The customers Electrician will need to slot the trunking so that the suitable tails can pass through without damage

**Meter Tails:** These will be Stranded Copper of a round section PVC/PVC Tails and suitable for the kVA of the installation and be long enough to Reach the cutout via the meter cabinet. UK Power Networks will make the connection to the cut out (see table below for sizes).

Please note Tri-rated / Micro Stranded cables are not accepted or allowed on these installations

- Non suitable for BS 6231 Tri-Rated cable OR
- Arctic Grade Cable, Flexible Cable to BS6004 & BSEN50265

**Main Earth Lead:** The earth lead must exit the trunking and not pass through the meter cabinet. Only one conductor can be terminated at UK Power Networks' PME connection. Please refer to the table below.

Table below has been taken from BS6004 "current carrying capacity and associated voltage drop for Single core PVC insulated cables, non-armored, with or without sheath" to comply With BS7671 17th Edition amendment 3, reference method 'b' Ritherdon CT Chamber

### Conductor size, fuse ratings and trunking requirements

Max. power requirement (kVA)	Fuse rating (Amps)	Standard copper conductor size meter tails (mm <sup>2</sup> )	Main earth lead size (mm <sup>2</sup> )	Recommended trunking size
1-69	100	25	16	150 x150
70-122	160	70	35	150 x 150
123-138	200	95/120	50	150 x 150
139-187	250	150	70	150 x 240
188-275	400	240	70	150 x 240

Please note the Trunking dimensions change with the introduction of 185mm or 240mm tails.

**Lugs:** To be used with some Large Power service heads which were installed pre January 2017. The lugs, where these are used, are to be supplied by the customer and must have a 16 mm hole.

**All bonding:** To be in accordance with the requirements of BS: 7671 17th Edition, Amendment 3, 2015.

**Electricity supplier:** An Electricity Supplier will need to be appointed before a supply can be Made available. Please note that some Electricity Suppliers require twenty working days to register your MPAN.

**Meter operator:** You will require a Meter Operator (MOP) to install the meter that records the energy you have consumed.

**Link to G81 web-site.** Please follow the link below for useful drawings in connection with your supply.