

# Energy Management

## 3-phase current transformers

### Type TCD2X



- 3-phase current transformer compatible to EM270-72D energy meter
- Primary current 250 A
- Hole size 21x25 mm
- Hole centres 35 mm
- Auto-detection of the primary current rated value by the EM270-72D energy meter
- Calibration parameters stored in internal EEPROM
- For bus-bar, wall and DIN-rail mounting with included accessories
- Umbilical connection to EM270-72D energy meter through RJ11

### Product description

Triple solid core current transformer to be used in combination with EM270-72D energy meter. Equipped with an RJ11 wire for a very fast installation. The energy meter automatically reads from TCD its primary current rated value, saving time for the user set-up, and the rel-

evant calibration parameters for a more accurate measurement. With hole centres compatible with the circuit breaker bus-bars, it can be mounted directly on the bars themselves, or wall/DIN-rail mounted using the relevant accessories.

### How to order **TCD2X 250 80CM X**

Model \_\_\_\_\_  
Primary current \_\_\_\_\_  
Cable lenght \_\_\_\_\_  
Option \_\_\_\_\_

### Type Selection

| Primary current                        | Cable length                                                       | Option         |
|----------------------------------------|--------------------------------------------------------------------|----------------|
| <b>250:</b> 250A primary current input | <b>80 CM:</b> 80cm<br><b>150 CM:</b> 150cm<br><b>200 CM:</b> 200cm | <b>X:</b> none |

### Specification

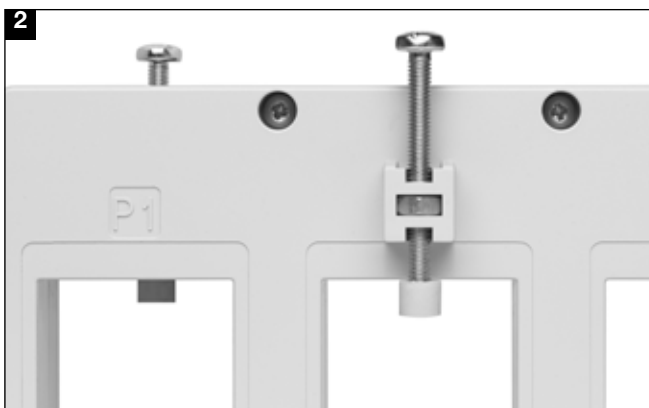
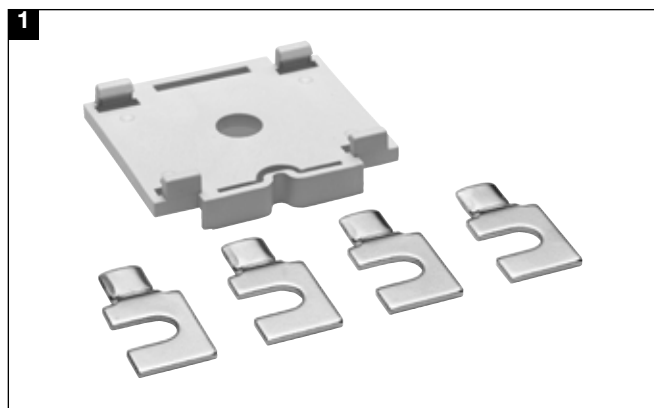
|                           |                       |                         |       |
|---------------------------|-----------------------|-------------------------|-------|
| Operating frequency       | 45 to 65 Hz           | Extended current rating | 120 % |
| Max. system voltage       | 0.72 kV               |                         |       |
| Rated insulation level    | 4 kVAC / 1 min        |                         |       |
| Short time current rating |                       |                         |       |
| $I_{th}$                  | Typical 100 $I_n$ /1s |                         |       |
| $I_{dyn}$                 | 2.5 $I_{th}$          |                         |       |

### General specification

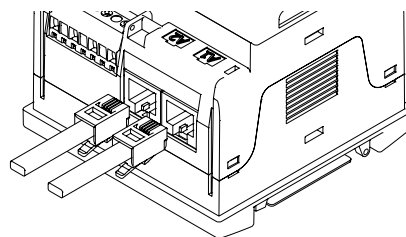
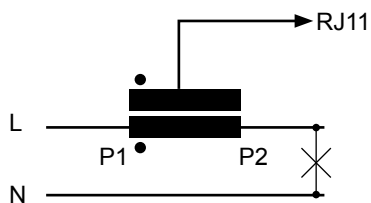
|                      |                                                                                    |                     |                                                                    |
|----------------------|------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|
| Standards            | Equivalent to EN60044-1                                                            | Storage temperature | -30°C to +70°C (-22°F to 158°F) (R.H. < 90% non-condensing @ 40°C) |
| Housing              | Noryl, self-extinguishing: UL 94 V-0                                               | Connections         | RJ11                                                               |
| Mounting             | DIN-rail, bus-bar and panel mounting                                               | Protection degree   | IP20                                                               |
| Approvals            | CE                                                                                 | Bus-bar size        | Max 21x25 mm                                                       |
| Standard accessories | Two panel mounting fixing clips. One DIN rail adapter. Three bus-bar fixing screws | Hole centres        | 35 mm                                                              |
| Working temperature  | -25°C to +55°C (-13°F to 131°F) (R.H. < 90% non-condensing @ 40°C)                 | Weight              | 370 g                                                              |

## Benefits

- Easy and quick mounting either on a panel or on a DIN-rail (see figure 1).
- Multiple screws provided with insulation caps to grant a strong and reliable fixing of the current transformer to the bus-bar (see figure 2).



## Wiring diagrams



## Dimensions

