

i-Block Installation Instructions

The i-BLOCK was designed as a compact and inexpensive interface for indirect three phase power meters & transducers. The device contains ganged 'dead-front' fuse holder with three 600V rated fuses plus terminal blocks with integrated shorting bars to safely short the CTs.

The i-BLOCK comes preconfigured with the fuses installed and the CT shorting bars in the CLOSED (shorted) position. This position is suited for installation, but must be changed to engage the CTs with the metering equipment during commissioning.

Installation:

- 1. Disconnect all live voltage sources.**
2. Open the fuse holder to disengage the voltage circuits.
3. Install the DIN rail on a sturdy surface such as a back panel. The provided DIN rail may be used, alternatively the i-BLOCK components may be mounted on a pre-existing DIN rail.

The input lines (high voltage and CT inputs) will be entering the i-BLOCK from the bottom, which should be considered when deciding on placement of equipment.

4. Wire the voltages (V1, V2, V3, N) and CTs (I_{11} , I_{12} , I_{21} , I_{22} , I_{31} , I_{32}) to the corresponding input (bottom) terminals on the i-BLOCK.
5. Connect the metering equipment to the corresponding output (top) terminals on the i-Block.
6. Verify all connections for proper polarity/orientation and physical connection. This is important as high voltages may appear on the terminals during operation.

Commissioning:

1. Ensure that properly rated fuses (600V, Class CC with a maximum rating of 1A) are installed in the fuse holder, and that the metering equipment is functioning properly.
2. Close the fuse holder to engage the voltage circuits.
3. Slightly loosen each of the screws securing the orange shorting bars to permit it to slide. Do not remove the screws completely.
4. Slide the orange shorting bar down until it reaches the end of its travel.
5. Re-secure the shorting bar screws to lock the shorting bar into place.
6. In the "open" position, the shorting bar acts to prevent access to the CT input screw terminals.
7. The meter must NOT be disconnected when the shorting block is in the OPEN position.

