



## SPECIFICATION

- Description** : 3Ø Digital Panel Meter  
**Display** : 3 digit 7 segment LED display with dual rows  
**Wiring input** : 3Ø - 4wire, 3Ø - 3wire, 1Ø - 2wire  
**Rated input voltage** : 20 - 520V AC  
**Rated input current** : 5% to 120% of Full scale (based on CT module)  
**Frequency** : 50-60Hz  
**Max. continuous input range** : 120% of rated input voltage and current  
**Auxillary voltage** : 85 to 276V AC  
**Over range indication** : "OVR" for input > 520 VAC & 120% of Current rating  
**Accuracy** : Meter : 0.5% Full scale  
 CT : 1% Full scale  
**Display update time** : 1sec  
**Power consumption** : less than 4VA  
**Weight** : 74gms  
**Mounting** : Panel Mounting  
**Environmental conditions** :  
**Temperature** : Operating : 0°C to 60°C  
 Storage : -20°C to +70°C  
**Humidity** : 95%(non-condensing)  
**Pollution degree** : II

## RESOLUTION

Current value	Resolution	Voltage value	Resolution
<10A	0.01A	<100V	0.1V
<100A	0.1A	>100V	1V
>100A	1A		

## SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

- Do not use the equipment if there is any mechanical damage.
- Ensure that the equipment is supplied with correct voltage.

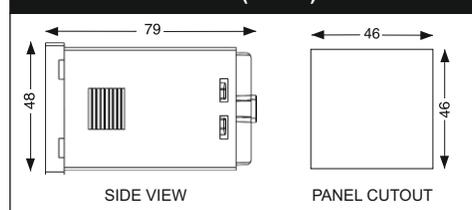
### CAUTION :

- Read complete instructions prior to installation and operation of the unit.
- Risk of electric shock.
- The equipment in its installed state must not come in close proximity to any heating sources, caustic vapours, oils, steam or other unwanted process by the products.

## ONLINE PAGE DESCRIPTION

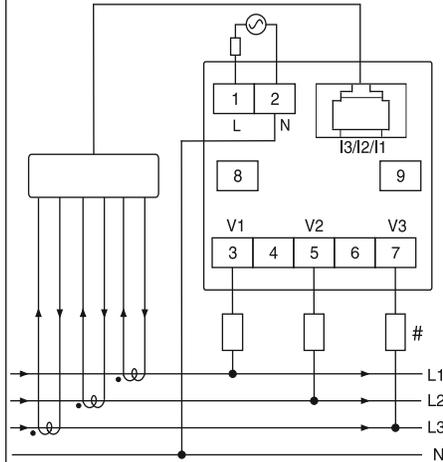
Time	Description	Indicator
-	Display L1 Voltage	L1 symbol ON
	Display L1 Current	I1 symbol ON
After 10sec	Display L2 Voltage	L2 symbol ON
	Display L2 Current	I2 symbol ON
After 10sec	Display L3 Voltage	L3 symbol ON
	Display L3 Current	I3 symbol ON
After 10sec	Display L12 Voltage	L1, L2 symbol ON
	Display L1 Current	I1 symbol ON
After 10sec	Display L23 Voltage	L2, L3 symbol ON
	Display L2 Current	I2 symbol ON
After 10sec	Display L31 Voltage	L3, L1 symbol ON
	Display L3 Current	I3 symbol ON

## OUTLINE Dimensions (in mm)



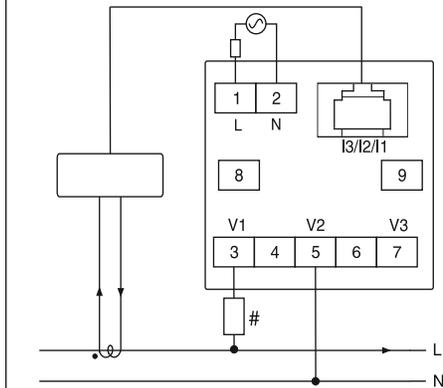
## TERMINAL CONNECTION

For 3Ø - 3 wire / 3Ø - 4 wire



**NOTE** : Neutral to be connected for for 3Ø - 4 wire

For 1Ø - 2 wire



# All fuse types : 0.5A class CC UL type  
0.5A fast acting 600V

## WIRING GUIDELINES

### WARNING :

- To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement.
- Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct.
- Use lugged terminals.
- To reduce electromagnetic interference use of wires with adequate ratings and twists of the same in equal size shall be made with shortest connections.
- Layout of connecting cables shall be away from any internal EMI source.
- Cable used for connection to power source, must have a cross section of 0.5mm<sup>2</sup> to 2.5mm<sup>2</sup> (20 to 14AWG ; 750C (min)). These wires shall have current carrying capacity of 6A.
- Copper cable should be used (Stranded or Single core cable).
- Before attempting work on device, ensure absence of voltages using appropriate voltage detection device.

## CT SELECTION

DIP Configuration	CT
	5A
	400A
	500A
	630A
	800A

Switch Setting Example -

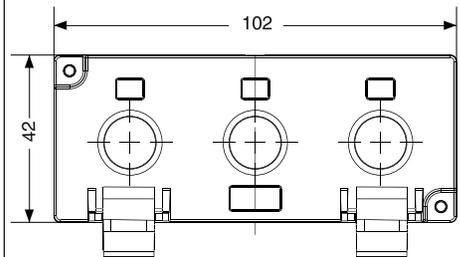


### CT 3PH-D13mm-80A-G

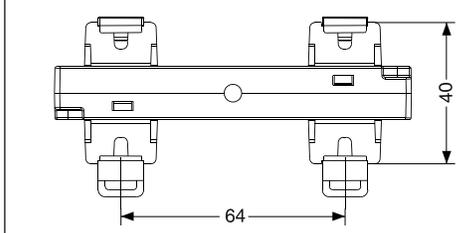
#### SPECIFICATIONS -

Rated Input Current : Nominal 80A AC (Min 4A - Max 96A)  
 No. of Phases : 3  
 Inner Dia : 13mm  
 Mounting : Din Rail & Wall Mount

#### OVERALL Dimensions (in mm)



#### MOUNTING (in mm)

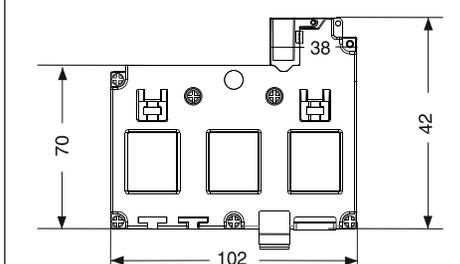


### CT 3PH-21x25mm-250A-G

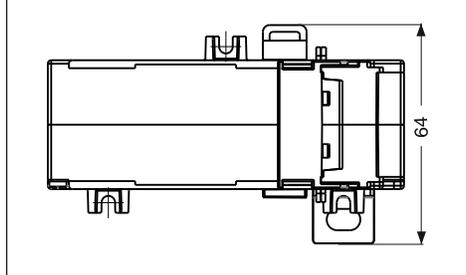
#### SPECIFICATIONS -

Rated Input Current : Nominal 250A AC (Min 10A - Max 300A)  
 No. of Phases : 3  
 Mounting : Din Rail & Wall Mount  
 Window : 21x25mm

#### OVERALL Dimensions (in mm)



### MOUNTING (in mm)

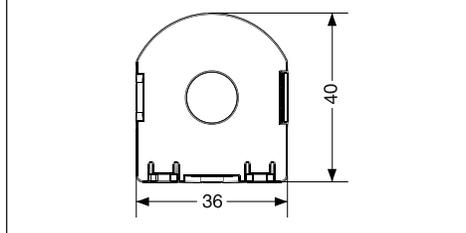


### CT 1PH-D13mm-80A-G

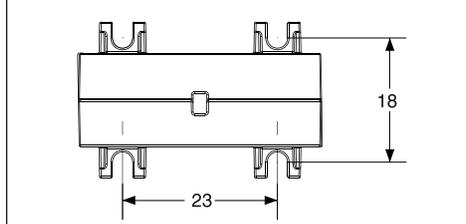
#### SPECIFICATIONS -

Rated Input Current : Nominal 80A AC (Min 4A - Max 96A)  
 No. of Phases : 1  
 Inner Dia : 12mm  
 Mounting : Din Rail & Wall Mount

#### OVERALL Dimensions (in mm)



#### MOUNTING (in mm)

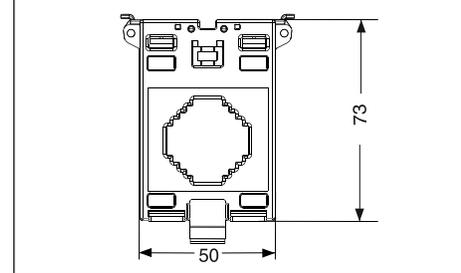


### CT 1PH-30x10mm-250A-G

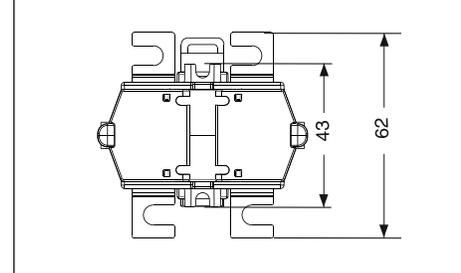
#### SPECIFICATIONS -

Rated Input Current : Nominal 250A AC (Min 10A - Max 300A)  
 No. of Phases : 1  
 Mounting : Din Rail & Wall Mount  
 Window : 30x10mm

#### OVERALL Dimensions (in mm)



#### MOUNTING (in mm)

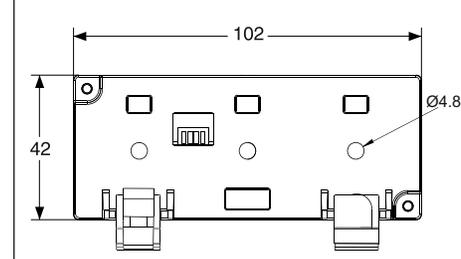


### 3PH 5A CONVERTER-G

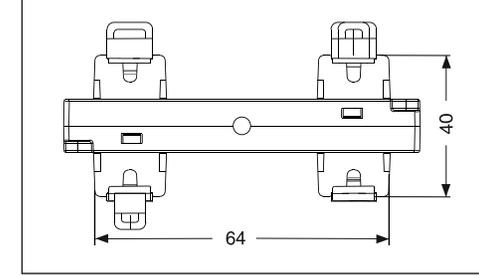
#### SPECIFICATIONS -

Rated Input Current : Nominal 5A AC (Min 50mA - Max 6A)  
 No. of Phases : 3  
 Inner Dia : 4.85mm  
 Mounting : Din Rail & Wall Mount

#### OVERALL Dimensions (in mm)



### MOUNTING (in mm)



#### ORDER CODE INFORMATION

Product Code	Supply/Current range	Certification
MVA593-CE	180-300VAC 50/60Hz	CE
CT 1PH-D13mm-80A-G	80A	CE
CT 1PH-30x10mm-250A-G	250A	CE
CT 3PH-D13mm-80A-G	80A	CE
CT 3PH-21x25mm-250A-G	250A	CE
3PH 5A CONVERTER-G	---	CE

(Specifications subject to change as development is a continuous process.)

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