OP871-V01

selec

MVA593-CE

Operating Instructions



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.

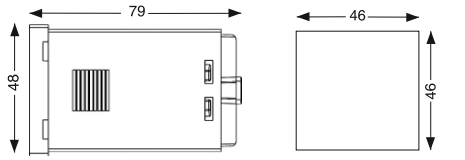
⚠ CAUTION :

1. Read complete instructions prior to installation and operation of the unit.
2. Risk of electric shock.
3. 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

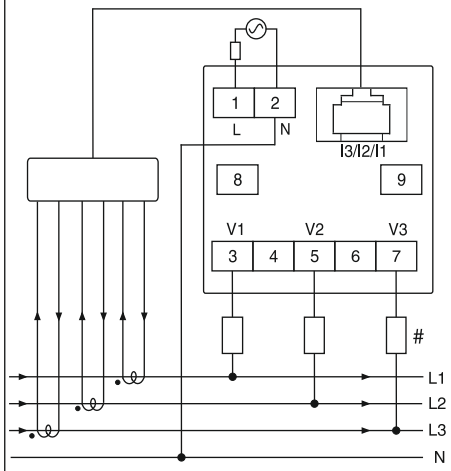
Time	Description	Indicator
-	Display L1 Voltage	L1 symbol ON
	Display L1 Current	I1 symbol ON
After 10sec	Display L2 Voltage	L2 symbol ON
	Display L2 Current	I2 symbol ON
After 10sec	Display L3 Voltage	L3 symbol ON
	Display L3 Current	I3 symbol ON
After 10sec	Display L12 Voltage	L1, L2 symbol ON
	Display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



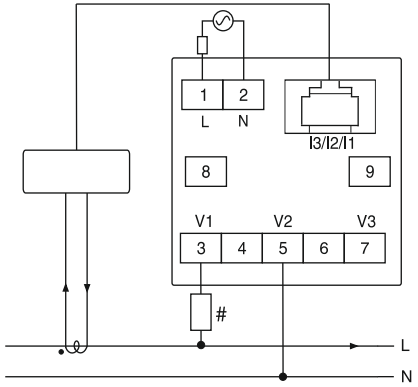
TERMINAL CONNECTION

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 :

1. To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement.
2. Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct.
3. Use lugged terminals.
4. To reduce electromagnetic interference use of wires with adequate ratings and twists of the same in equal size shall be made with shortest connections.
5. Layout of connecting cables shall be away from any internal EMI source.
6. Cable used for connection to power source, must have a cross section of 0.5mm^2 to 2.5mm^2 (20 to 14AWG ; 750C (min)). These wires shall have current carrying capacity of 6A.
7. Copper cable should be used (Stranded or Single core cable).
8. 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 -

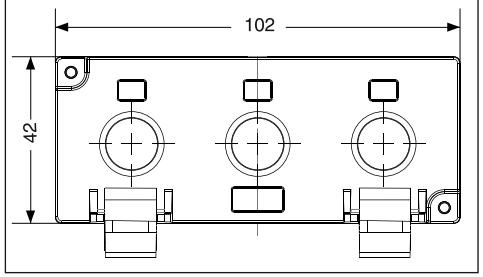


CT 3PH-D13mm-80A-G

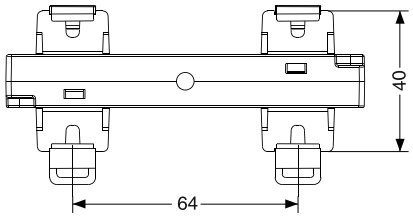
SPECIFICATIONS -

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)

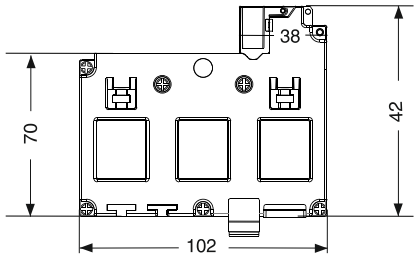


CT 3PH-21x25mm-250A-G

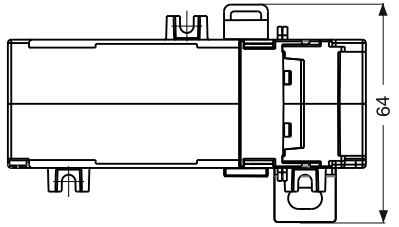
SPECIFICATIONS -

Rated Input Current : Nominal 250A AC (Min 10A - Max 300A)
No. of Phases : 3
Mounting : Din Rail & Wall Mount
Window : 21x 25mm

OVERALL Dimensions (in mm)



MOUNTING (in mm)

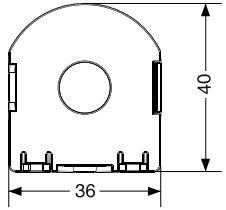


CT 1PH-D13mm-80A-G

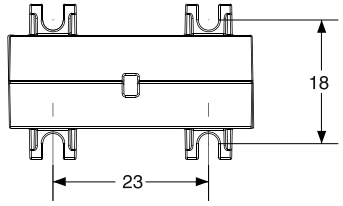
SPECIFICATIONS -

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)

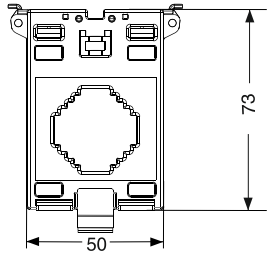


CT 1PH-30x10mm-250A-G

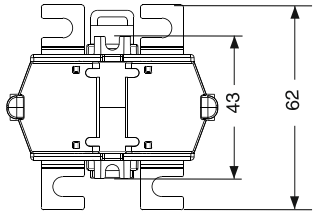
SPECIFICATIONS -

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)

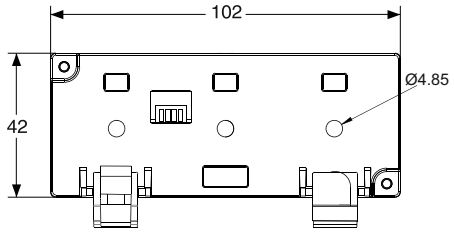


3PH 5A CONVERTER-G

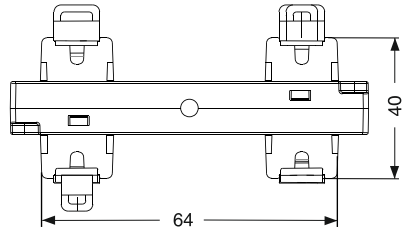
SPECIFICATIONS -

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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