



72 x 72 mm

## Features :

- ▶ True RMS measurement
- ▶ Analog style bar graph for voltage representation
- ▶ Selector switch for page selection
- ▶ CE & RoHS Certified

Certifications :  

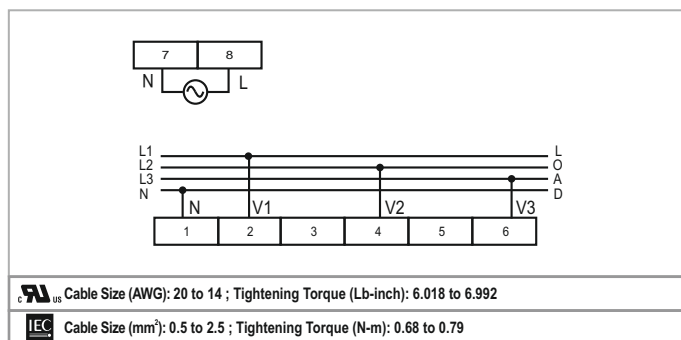
## Technical specifications

| Display specifications          |                                                   |
|---------------------------------|---------------------------------------------------|
| Display                         | 7 Segment LCD                                     |
| Digits                          | 3                                                 |
| Digit height                    | 0.56" (14.2 mm)                                   |
| Display range                   | 0 – 516V                                          |
| Resolution                      | 1V                                                |
| Input specifications            |                                                   |
| Electrical connection           | 3Ø-3 Wire, 3Ø-4 Wire                              |
| Input type                      | AC                                                |
| Input current range             | 50 to 480V                                        |
| Continuous max. input current   | 516V                                              |
| Accuracy                        | ±0.5% of F.S.                                     |
| Frequency range                 | 50 - 60Hz                                         |
| Electrical specification        |                                                   |
| Installation category           | III                                               |
| High voltage test               | 2kV AC, 50Hz                                      |
| IP Protection                   | IP51 Front only                                   |
| Sampling rate                   | 3 Samples/Second                                  |
| Dielectric withstand voltage    | 2kV AC Between auxiliary supply & measuring input |
| Rated impulse withstand voltage | 2kV (1.2/50µS)                                    |
| Auxiliary supply specifications |                                                   |
| Auxiliary supply                | AC: 240V AC ±20%, (50/60Hz), 110V AC ±20%, (60Hz) |
| Supply frequency                | 50/60Hz                                           |
| Input burden                    | 0.5VA @5A AC                                      |
| Power consumption               | 5VA Max                                           |
| Environment specifications      |                                                   |
| Operating temperature           | -10°C to +55°C (14°F to 131°F)                    |
| Storage Temperature             | -20°C to +75°C (-4°F to 167°F)                    |
| Humidity (Non - condensing)     | Upto 95% RH                                       |
| Pollution degree                | 2                                                 |
| Altitude                        | Upto 2000 meters                                  |
| Measurement category            | CAT III                                           |

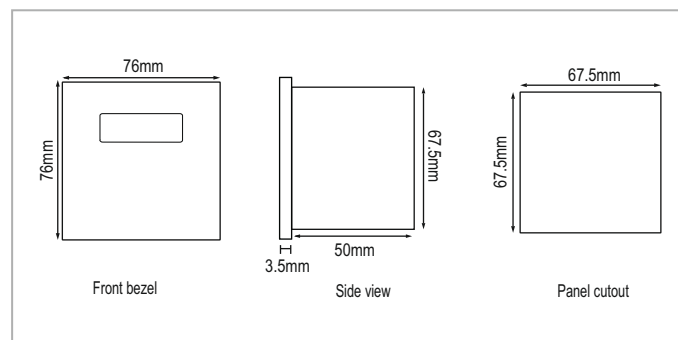
## Mechanical specifications

|                         |                      |
|-------------------------|----------------------|
| Mounting                | Panel mount          |
| Bezel size              | 72mm x 72mm          |
| Overall depth           | 50mm                 |
| Weight                  | 206gm                |
| Torque at terminals     | 0.68 N-m to 0.79 N-m |
| Wire gauge at terminals | 20 to 14 AWG; 75°C   |
| Mounting position       | Vertical             |

## Terminal connections



## Dimensions (All are in mm)



## Standards compliance

| Applicable EMI / EMC Standards   |                    |                                                                                                                                                                                                                                                                                                   |
|----------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product standard : IEC 61326 - 1 |                    |                                                                                                                                                                                                                                                                                                   |
| Category                         | Standards          | Compliance                                                                                                                                                                                                                                                                                        |
| ESD Immunity                     | IEC 61000 - 4 - 2  | Level IV (Air discharge : 8kV), (Contact discharge : 4kV)                                                                                                                                                                                                                                         |
| Surge immunity                   | IEC 61000 - 4 - 5  | + / - 2kV Common mode, (Line to ground)                                                                                                                                                                                                                                                           |
| Radiated susceptibility          | IEC 61000 - 4 - 3  | Level III, 80 to 1000MHz (10V / m)<br>Level II, 1.4GHz to 2GHz (3V / m)<br>Level I, 2GHz to 2.7GHz (1V / m)                                                                                                                                                                                       |
| Conducted susceptibility         | IEC 61000 - 4 - 6  | Level II (3V / m)                                                                                                                                                                                                                                                                                 |
| Voltage dips and interruptions   | IEC 61000 - 4 - 11 | <b>Dips</b> : 0% Residual voltage / 1 Cycle (Criteria B), 40% Residual voltage / 10 Cycles 50Hz / 12 Cycles 60Hz (Criteria C), 70% Residual voltage / 25 cycles 50Hz / 30 Cycles 60Hz (Criteria C)<br><b>Interruptions</b> : 0% Residual voltage / 250 Cycles 50Hz / 300 Cycles 60Hz (Criteria C) |
| Conducted emission               | CISPR - 11         |                                                                                                                                                                                                                                                                                                   |
| Radiated emission                | CISPR - 11         |                                                                                                                                                                                                                                                                                                   |
| Electrical fast transient        | IEC 61000 - 4 - 4  | Level III (2kV)                                                                                                                                                                                                                                                                                   |

## Ordering information

| Product code          | Supply voltage      | Certification |
|-----------------------|---------------------|---------------|
| <b>MV2307-230V-CE</b> | 240V AC $\pm 20\%$  | <b>CE</b>     |
| <b>MV2307-110V-CE</b> | 110V AC, $\pm 20\%$ | <b>CE</b>     |