




96 x 96mm

## Features :

- 1Ø & 3Ø True RMS measurement
- Wide auxiliary supply from 40 to 300V AC/DC
- PT Primary programmable up to 999kV
- K LED for kilo indication
- CE & RoHS certified

Certifications : 

### Display Specifications

|                     |                       |
|---------------------|-----------------------|
| Display             | 7 segment LED Display |
| Digits              | 4                     |
| Digit Height        | 0.56" (14.2mm)        |
| Display update time | 1 sec                 |
| Display range       | 0-999kV               |
| Resolution          | Auto resolution       |

### Input Specifications

|                               |   |
|-------------------------------|---|
| Electrical Connection         | 3Ø - 4 wire, 3Ø - 3 wire, 1Ø - 2 wire ( MV35 1-G-40/300V for single phase only) |
| Input Type                    | AC  |
| Rated input voltage           | 11 to 300V (L-N), 19 to 519V (L-L)  |
| Overrange indication          | "Or" for input > 519V (L-L), 300V (L-N)   |
| Continuous max. input voltage | 120% of rated voltage   |
| Accuracy                      | ±0.5% of Full scale   |
| Frequency Range               | 50 - 60Hz   |

### Electrical specification

|                                 |   |
|---------------------------------|---|
| Input Impedance                 | 1MΩ (± 5%)  |
| Installation category           | III   |
| High Voltage Test               | 2kV AC, 50Hz                                      |
| IP protection                   | IP51 (Front), IP 20 (Rear)                        |
| 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  | 40V to 300V AC / DC |
| Supply Frequency  | 50 / 60Hz           |
| Input Burden      | 0.5 VA @ 5A AC      |
| Power Consumption | 5 VA max            |

### Settable Parameters

|                      |   |
|----------------------|---|
| Network selection    | 3 Ø-4W, 3 Ø-3W, 1 Ø-2W (Only applicable for MV35-3-G-40/300V) |
| CT Primary Setting   | 1-999kV (Programmable for any value)                          |
| CT Secondary Setting | 100V-500V (Programmable for any value)                        |

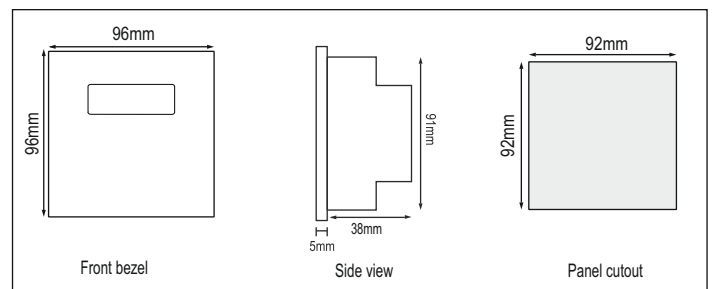
### Environmental Specifications

|                           |                                |
|---------------------------|--------------------------------|
| 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) | Up to 85% non-condensing       |
| Pollution degree          | 2                              |
| Altitude                  | Upto 2000 meters               |
| Measurement Category      | CAT III                        |

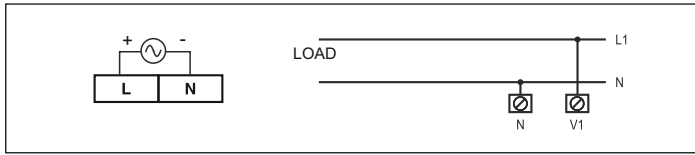
### Mechanical Specifications

|                         |                      |
|-------------------------|----------------------|
| Mounting                | Panel mount          |
| Bezel size              | 96 mm x 96 mm        |
| Overall depth           | 38 mm                |
| Weight                  | 155 gms              |
| 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             |

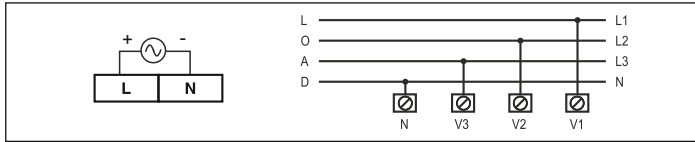
### Dimensions



Terminal Connections



MV35-1-G



MV35-3-G

|  |   |
|--|---|
|  | Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992          |
|  | Cable Size (mm <sup>2</sup> ): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79 |

Compliance

| Applicable EMI / EMC Standards |                |   |
|--------------------------------|----------------|---|
| Product Standard : IEC 61326-1 |                |   |
| Category                       |                | Standards Compliance  |
| ESD Immunity                   | IEC 61000-4-2  | Level IV (Air discharge : 8kV),<br>(Contact Discharge : -4kV)   |
| Surge Immunity                 | IEC 61000-4-5  | +/- 2kV common mode, (Line to ground)<br>+/- 1kV differential mode, (Line to Line)  |
| Radiated Susceptibility        | IEC 61000-4-3  | 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 / 1) cycles 50Hz / 12 cycles 60Hz (Criteria C)<br>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 |
|---------------------|----------------|---------------|
| MV35-3-G-40/300V-CE | 40-300V AC     | CE            |
| MV35-1-G-40/300V-CE | 40-300V AC     | CE            |