Digital Voltmeter

MV35-1

96 x 96 mm

Features :

- Single phase 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

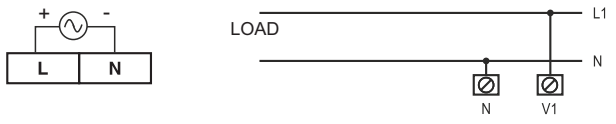
Certifications : CE

Technical specifications

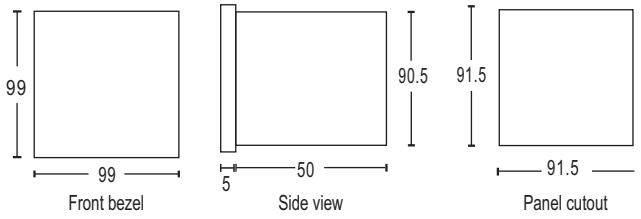
Display specifications	
Display	7 Segment LED Display
Digits	4
Digit Height	0.56" (14.2 mm)
Display update time	1 Sec
Display range	0-999kV
Resolution	Auto resolution
Input specifications	
Electrical connection	1Ø-2W
Input type	AC
Rated input voltage	11 to 300V (L-N), 19 to 600V (L-L)
Over range indication	"Or" for input > 600V (L-L), 300V (L-N)
Continuous max. input voltage	140% of rated voltage
Accuracy	±0.5% of F.S.
Frequency range	50-60Hz
Electrical specification	
Input impedance	1MΩ (± 5%)
Installation category	III
High voltage test	120 % of rated voltage
IP Protection	IP51 (Front), IP20 (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	50/60 Hz
Input burden	0.5VA@ 5A AC
Power consumption	5VA max
Settable parameters	
Network selection	1Ø-2W
CT Primary setting	100V - 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%
Pollution degree	2
Altitude	Upto 2000 meters
Measurement category	CAT III
Mechanical specifications	
Mounting	Panel mount
Bezel size	96mm x 96mm
Overall depth	38mm
Weight	155gm
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) Level II, 1.4GHz to 2GHz (3V / m) 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	**Dips :** 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) **Interruptions :** 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
MV35-1-G-40/300V-CE	40 to 300V AC/DC	CE