



96 x 96mm

Features :

- 3 Ø (True rms) voltage
- 3 Ø (True rms) current
- 3 Ø Power factor
- 3 Ø Power (active, reactive, apparent)
- Frequency

Display specifications

| | |
|---------|------------------------|
| Display | 3 rows, 7 segments LED |
| Digits | 3 |

Input specifications

| | |
|-----------------------|---|
| Electrical connection | 3Phase -3Wire, 3Phase-4Wire |
| Input voltage range | 11 to 300V AC (phase to neutral) 19 to 519V AC (phase to phase) |
| Input current range | Nominal 5A AC (Min - 20mA, Max - 6A) |
| Frequency | 45 to 65Hz |
| Power consumption | <8VA max |
| Accuracy | Voltage (L - N / L - L): ±0.5% of F.S. Current : ±0.5% of F.S. Power factor : ±1.00 Frequency : ±0.1% for Measuring Voltage >11V for L - L voltage >35V Power (active, reactive, apparent) : 1% |
| Measuring Parameters | Voltage (L - L / L - N) (individual/average), Current (I1, I2, I3)(individual / average), Frequency, Power factor(individual/average), active power, reactive & apparent power(individual/average), Run hour, RPM |

Supply specifications

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|------------------|---------------------------|
| Auxiliary supply | 85V to 276V AC, 50 / 60Hz |
|------------------|---------------------------|

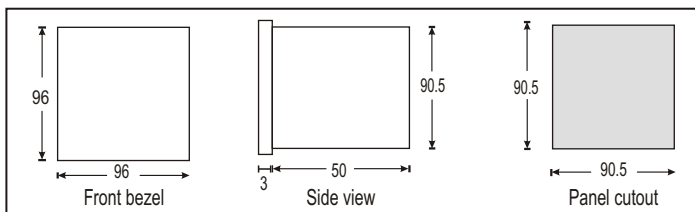
Environmental specifications

| | |
|-----------------------------|---|
| Temperature | Operating : -10° to 55°C Storage : -20° to +75°C |
| Humidity (non - condensing) | Upto 85% RH |

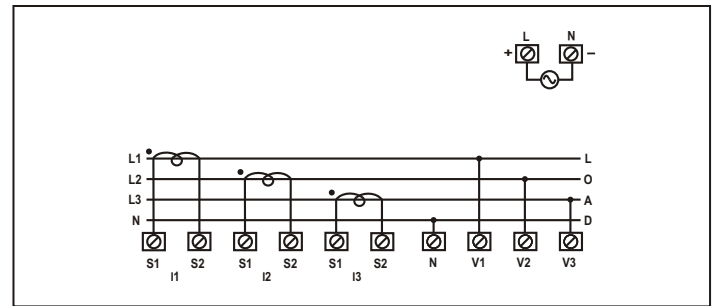
Mechanical specifications

| | |
|----------|-------------|
| Mounting | Panel mount |
| Weight | 191gms |

Dimensions (all are in mm)



Terminal connection



Compliance

| Applicable EMI / EMC Standards | | |
|----------------------------------|--------------------|---|
| Product standard : IEC 61326 - 1 | | |
| Category | | Standards Compliance |
| EFT (Electrical Fast Transient) | IEC 61000 - 4 - 4 | Level III (2KV) |
| Surge immunity | IEC 61000 - 4 - 5 | ± 2kV Common mode, (Line to Ground) ± 1kV Differential mode, (Line to Line) |
| Voltage dips and interruption | IEC 61000 - 4 - 11 | Dips : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 600Hz (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) |
| ESD immunity | IEC 61000 - 4 - 2 | Level IV (Air Discharge : 15kV), (Contact Discharge : 8kV) |
| 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) |
| Radiated emission | CISPR - 11 | |
| Conducted emission | CISPR - 11 | |

Ordering information

| Product code | Supply voltage | Certification |
|--------------|----------------|---------------|
| MFM391 | 85V to 276V AC | --- |