

METERS

(MULTIFUNCTION / ENERGY / VAF)



Multifunction



Multifunction



Energy



VAF

- TRUE RMS measurement
- 3Ø V, I, F, PF, P
- Energy (Active, Reactive, Apparent)
- RS485 modbus communication (Optional)

With import & export Energy



Din Rail Multifunction

Other Meters:



LED Multifunction



LCD Energy



LED - Ammeter / Voltmeter



LCD - Ammeter / Voltmeter

Other Product Ranges:

PROTECTION RELAYS | PLC's | TEMPERATURE CONTROLLERS | TIMERS | COUNTERS | CT'S

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Specifications overleaf...

Technical Specification



MFM384



MFM383A



EM306A



MFM384-R-C

| DESCRIPTION | MULTIFUNCTION | MULTIFUNCTION | ENERGY | MULTIFUNCTION (DIN RAIL) |
|--|---|---|--|---|
| Functions | <ul style="list-style-type: none"> 3 Ø (True rms) Voltage, Current, Power Factor, Power (Active, Reactive, Apparent) Frequency Energy (Active, Reactive, Apparent) Modbus RTU Communication (RS485) Total Harmonic Distortion Pulse Output Demand (Min / Max Active Power, Min / Max Reactive Power, Max Apparent Power) | <ul style="list-style-type: none"> 3 Ø (True rms) Voltage, Current, Power Factor, Power (Active, Reactive, Apparent) Frequency Energy (Active, Reactive, Apparent) Modbus RTU Communication (RS485) Pulse Output | <ul style="list-style-type: none"> Energy (Active) Pulse Output Programmable CT Primary / Secondary | <ul style="list-style-type: none"> 3 Ø (True RMS) Voltage, Current, Power Factor, Power (Active, Reactive, Apparent) Energy (Active, Reactive, Apparent) Frequency Password Protection Modbus RTU communication (RS485) Max/Min demand of power Display (Manual / Scrolling) |
| Display | Liquid crystal display with backlight | | LED Display | 3 row, Liquid Crystal Display with backlight |
| Digits | 4 rows of 4 digits, 1 row of 8 digits for energy display, Bargraph representation of current | 3 rows of 4 digits, 7½ digits for energy | 6 digits | Row 1 of 4 digits, Row 2 and 3 of 7 digits |
| Input Type | 3Ø - 3/4 wire, 2Ø - 3wire, 1Ø - 2 wire | | | |
| Rated Input Voltage | 11 to 300V AC max Phase to Neutral ; 19 to 519V AC max Phase to Phase | | | |
| Voltage Burden (max) | 0.2VA@ 300V (L-N) | | --- | |
| Rated Input Current | Nominal 5A AC (min-11mA, max-6A) | | | |
| Current Burden (max) | 0.5VA@ 5A per phase | | --- | |
| Frequency | 45Hz to 65Hz | | | |
| Resolution | For energy- 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M (depending upon CT ratio X PT ratio) For Power, Voltage & Current- Auto resolution For Power factor - 0.001 | For energy- 0.1k, 1k (depending upon CT ratio X PT ratio) For Power, Voltage & Current- Auto resolution For Power factor - 0.001 | For energy - 0.01k, 0.1k, 1k, 10k (depending upon CT ratio) | For Energy: 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M (Depending upon CT ratio x PT ratio) For Power, Voltage, Current: Auto Resolution For Power Factor: 0.01 Frequency: 0.1Hz |
| Accuracy Class | Class 1 for Active/Reactive/Apparent energy 1% for Active/Reactive/Apparent power ±0.5% of FS for V_{L-L} , V_{L-N} , Avg. V_{L-N} , Avg. V_{L-L} , I, Avg. I, ±0.1% for Frequency ±0.01% for Power factor and Avg. Power factor | Class 1 for Active, Reactive, Apparent energy 1% for Active/Reactive/Apparent power ±0.5% of FS for V_{L-L} , V_{L-N} , Avg. V_{L-N} , Avg. V_{L-L} , I, Avg. I, ±0.1% for Frequency ±1% for Power factor and Avg. Power factor | Class1 | Voltage (L-L / L-N), Current: 0.5 of full range, Power Factor: ±0.01 of full range, Frequency: 0.1 of full range, Power (kW, kVA, kVA): 1.0 of full range, Energy (Active, Reactive, Apparent): 1.0 of full range |
| CT Primary | 1A / 5A upto 10,000A (Programmable for any Value), Note : 1A or 5A depends upon the CT secondary | | | 5A to 10,000A (Programmable for any value) |
| CT Secondary | 1A or 5A (External CT must be connected for current more than 5A) | | | 1A/5A |
| PT Primary | 100V to 500 kV (Programmable for any Value) | 100V to 10000V (Programmable for any Value) | ---- | 100V to 500kV (Programmable for any value) |
| PT Secondary | 100V to 500V AC (phase to phase) | | ---- | 100V to 500V AC (L-L) (Programmable for any value) |
| Supply Voltage | 100 to 240V AC, -15% to +12%, 50/60Hz, ±5%, (Power Consumption : Less than 8VA) | | 230V AC, ±20% (50/60Hz) | 85 to 270V AC, 50/60Hz |
| Display Scrolling | Automatic / Manual | | ---- | Automatic / Manual |
| Display Reset | Available (Password Protected) | | | |
| Memory Retention for Energy | 10 years | | | |
| Output | Pulse Output: Voltage range - External 24V DC max, Current capacity - 100 mA max, Pulse Width: 100 ms ± 5 ms. | | | --- |
| Communication | RS485 MODBUS Communication (Optional) | | --- | RS485 MODBUS RTU communication in multi-drop mode |
| Temperature / Humidity (non-condensing) | Operating: -10°C to 55°C, Storage: -20°C to 75°C / Upto 85% RH | | | Operating : -5°C to +60°C Storage: -20°C to +75°C |