

Electrical Meters

- Performance
- Elegance
- Innovation



- Multifunction Meters
- Energy Meters
- VAF Meters
- Panel Meters



MFM384



MFM384-D

| DESCRIPTION | MULTIFUNCTION METER | MULTIFUNCTION METER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------|--------|--------------------------|---------------|--|-------------|--------------|---------------|----|--------------------------|--------|---|---|---|---|---|----------|---|---|---|---|---|---------------|---|---|---|---|---|--|------------|----------------|--------|--|------------|--------------|---------------|----------|---|---|---|
| Functions | <ul style="list-style-type: none"> • 3 Ø (True rms) Voltage • 3 Ø (True rms) Current • 3 Ø Power (Active, Reactive, Apparent) • 3 Ø Power Factor • Frequency • Energy (Active, Reactive, Apparent) • Total Harmonic Distortion • Programmable CT / PT Primary / Secondary • Modbus RTU Communication (RS485) (Optional) • Single Pulse Output • Demand (Min / Max active power & Reactive, Max Apparent Power) | <ul style="list-style-type: none"> • Dual Input Meter (Mains / D. G.) • True RMS Measurement of 3Ø Voltage & Current Parameters • 3 Ø Power (Active, Reactive, Apparent) • 3 Ø Power Factor • Frequency • Energy (Active, Reactive, Apparent) • Total Run Hour & ON Hour (Hour-Mins) & RPM • Phase Sequence Detection • Programmable CT / PT Primary / Secondary • Modbus RTU Communication (RS485) • Pulse Output • Max / Min Demand (Power) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Liquid crystal display with backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Digits | 4 rows of 4 digits, 1 row of 8 digits for energy display Bargraph representation of current | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input Type | 3 Ø - 3/4 wire, 2 Ø - 3 wire, 1 Ø - 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 | 45 to 65 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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- 0.01k, 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, Total Run-Hour - 0.1 Hr, RPM - 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 & 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} , I Total Run Hour - ±1%, RPM - ±0.5%, Power factor - ±1% Frequency - 0.1 Hz (For $V > 20V$ L-N, $V > 35V$ L-L) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CT Primary | 1A / 5A upto 10,000A (Programmable for any Value), Note : 1A or 5A depends upon the CT secondary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CT Secondary | 1A or 5A (External CT must be connected for Current more than 5A) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PT Primary | 100V to 500 kV (Programmable for any Value) | 100V to 999 kV (Programmable for any Value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PT Secondary | 100V to 500V AC (phase to phase) (Programmable for any Value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Supply Voltage | 100 to 240V AC, -15% to +12%, 50/60Hz, ±5% (Power consumption : Less than 8VA) | 85 to 270V AC (50/60Hz), (Power consumption : Less than 8VA) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display Scrolling | Automatic / Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCD/LED Parameter Indications | 1) Numerical display for all measured parameters 2) Percentage of current in bar graph form | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature / Humidity (non-condensing) | Operating: -10°C to 55°C, Storage: -20°C to 75°C / Upto 85% RH | Operating: 0°C to 50°C, Storage: -20°C to 75°C / Upto 95% RH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order Code | <table border="1"> <thead> <tr> <th rowspan="2">Order Code</th> <th>Supply Voltage</th> <th colspan="2">Output</th> <th colspan="2">Certification</th> </tr> <tr> <th>100-240V AC</th> <th>Pulse Output</th> <th>Commn (RS485)</th> <th>CE</th> <th>cUL^{us} LISTED</th> </tr> </thead> <tbody> <tr> <td>MFM384</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> </tr> <tr> <td>MFM384-C</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> </tr> <tr> <td>MFM384-C-CU-G</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> </tr> </tbody> </table> | Order Code | Supply Voltage | Output | | Certification | | 100-240V AC | Pulse Output | Commn (RS485) | CE | cUL ^{us} LISTED | MFM384 | ■ | ■ | ■ | ■ | ■ | MFM384-C | ■ | ■ | ■ | ■ | ■ | MFM384-C-CU-G | ■ | ■ | ■ | ■ | ■ | <table border="1"> <thead> <tr> <th rowspan="2">Order Code</th> <th>Supply Voltage</th> <th colspan="2">Output</th> </tr> <tr> <th>85-270V AC</th> <th>Pulse Output</th> <th>Commn (RS485)</th> </tr> </thead> <tbody> <tr> <td>MFM384-D</td> <td>■</td> <td>■</td> <td>■</td> </tr> </tbody> </table> | Order Code | Supply Voltage | Output | | 85-270V AC | Pulse Output | Commn (RS485) | MFM384-D | ■ | ■ | ■ |
| Order Code | Supply Voltage | | Output | | Certification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 100-240V AC | Pulse Output | Commn (RS485) | CE | cUL ^{us} LISTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MFM384 | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MFM384-C | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MFM384-C-CU-G | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order Code | Supply Voltage | Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 85-270V AC | Pulse Output | Commn (RS485) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MFM384-D | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Size (Bezel/Cutout) / Dimensions | (96 x 96 / 92 x 92) / Refer diagram A on page 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Refer terminal diagram on page no. 8 | Note: For Grey products consult factory



MFM383A



MFM374

MULTIFUNCTION METER

- 3 Ø (True rms) Voltage
- 3 Ø (True rms) Current
- 3 Ø Power (Active, Reactive, Apparent)
- 3 Ø Power Factor
- Frequency
- Energy (Active)
- Programmable CT/PT Primary/Secondary
- Modbus RTU Communication (RS485) (Optional)
- Pulse Output

Liquid crystal display with backlight

3 rows of 4 digits, 7½ digits for energy

MULTIFUNCTION METER

- 3 Ø (True rms) Voltage
- 3 Ø (True rms) Current
- 3 Ø Power (Active, Reactive, Apparent)
- 3 Ø Power Factor
- Frequency
- Energy (Active, Reactive, Apparent)
- Programmable CT/PT Primary/Secondary
- Modbus RTU Communication (RS485) (Optional)
- Pulse Output

7 segment LED

3 rows of 4 digits, 8 digits for energy

3 Ø - 3/4 wire, 2 Ø - 3 wire, 1 Ø - 2 wire

11 to 300V AC max Phase to Neutral
19 to 519V AC max Phase to Phase

0.2VA@ 300V (L-N)

Nominal 5A AC (min-11mA, max-6A)

0.5VA@ 5A per phase

45 to 65 Hz

For energy- 0.1k, 1k (depending upon CT ratio X PT ratio)
For Power, Voltage & Current- Auto resolution
For Power factor - 0.001

Class 1 for Active 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

Auto Resolution

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

1A / 5A upto 10,000A (Programmable for any Value), Note : 1A or 5A depends upon the CT secondary

1A or 5A (Programmable)

100V to 10000V (Programmable for any Value)

100V to 500 kV (Programmable for any Value)

100V to 500V AC (phase to phase) (Programmable for any Value)

100 to 240V AC, -15% to +12%, 50/60Hz, ±5%, (Power consumption : Less than 8VA)

Automatic / Manual

Numerical display for all measured parameters

LEDs for all measured parameters

Available (Password Protected)

10 years

Pulse Output: Voltage range - External 24V DC max.
Current capacity - 100 mA max.
Pulse Width: 100 ms ± 5 ms.

RS485 MODBUS Communication (Optional)

Consult Factory

Operating: -10°C to 55°C, Storage: -20°C to 75°C / Upto 85% RH

| Order Code | Supply Voltage | Output | Certification | |
|------------|----------------|--------------|---------------|--------------------------|
| | 100-240V AC | Pulse Output | CE | cUL _{US} LISTED |
| MFM383A | ■ | ■ | | |
| MFM383A-CU | ■ | ■ | ■ | ■ |

Note : For MFM383A-C(Communication version) / MFM383A-C-CU please contact factory.

| Order Code | Supply Voltage | Output | Certification | |
|------------|----------------|--------------|---------------|--------------------------|
| | 100-240V AC | Pulse Output | CE | cUL _{US} LISTED |
| MFM374 | ■ | ■ | | |
| MFM374-CU | ■ | ■ | ■ | ■ |

Note : For MFM374-C(Communication version) / MFM374-C-CU please contact factory.

(96 x 96 / 92 x 92) / Refer diagram A on page 10



MFM384-R-C



MFM384-R-C-48V

| DESCRIPTION | DIN RAIL MULTIFUNCTION METER | DIN RAIL MULTIFUNCTION METER | | | | | | | | | | | | | | | | |
|---|--|--|----------------|--------|---------------|------------|------------|---------------|----|---|------------|----------------|--------|---------------|-------------------|--------------------------------|---------------|----|
| Functions | <ul style="list-style-type: none"> • 3 Ø (True RMS) Voltage • 3 Ø (True RMS) Current • 3 Ø Power Factor • 3 Ø Power(Active, Reactive, Apparent) • Energy(Active, Reactive, Apparent) • Frequency • Password Protection • CT, PT Primary/Secondary programmable • Modbus RTU communication(RS485) • Max/Min demand of power • Display (Manual / Scrolling) | <ul style="list-style-type: none"> • 3 Ø (True RMS) Voltage • 3 Ø (True RMS) Current • 3 Ø Power Factor • 3 Ø Power(Active, Reactive, Apparent) • Energy(Active,Reactive,Apparent) • Frequency • Password Protection • CT, PT Primary/Secondary programmable • Modbus RTU communication(RS485) • Max/Min demand of power | | | | | | | | | | | | | | | | |
| Display | 3 row, Liquid Crystal Display with backlight | | | | | | | | | | | | | | | | | |
| Digits | Row 1 of 4 digits, Row 2 and 3 of 7 digits | | | | | | | | | | | | | | | | | |
| Input Type | 1 Ø - 2 wire, 3 Ø - 3 wire, 3 Ø - 4 wire | | | | | | | | | | | | | | | | | |
| Rated input Voltage | 19 to 519V AC,(Phase to Phase) 11 to 300V AC,(Phase to Nuetral) | 3.5 to 132V AC,(Phase to Phase) 2 to 76.2V AC,(Phase to Nuetral) | | | | | | | | | | | | | | | | |
| Frequency | 45Hz - 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:0.01 Frequency:0.1Hz | 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 | Voltage (L-L / L-N), Current: ±0.5% Power Factor: ±0.01 of full range Frequency: 0.1% of full range Power (kW, kVA, kVAr) : 1% of full range Energy (Active, Reactive, Apparent): 1% of full range | Voltage: ±0.5% of range, Current: ±0.5% of range Frequency: ±0.15% of mid frequency, Active Power: ±0.5% of range, Re-Active Power: ±0.5% of range, Apparent Power: ±0.5% of range, Apparent energy (kVAh): ±0.5% of range Active energy (kWh): ±0.5% of range, Re Active energy (kVArh): ±0.5% of range, Power Factor: ±0.5% of unity Angle: ±0.5% of range(0- 360 degree) | | | | | | | | | | | | | | | | |
| CT Primary | 5A to 10,000A (Programable for any value) | | | | | | | | | | | | | | | | | |
| CT Secondary | 1A/5A | | | | | | | | | | | | | | | | | |
| PT Primary | 100V to 500kV(Programable for any value) | 80V to 500kV (Programable for any value) | | | | | | | | | | | | | | | | |
| PT Secondary | 100V to 500V AC (L-L) (Programable for any value) | 80V to 140V AC (L-L) (Programable for any value) | | | | | | | | | | | | | | | | |
| Supply Voltage | 85 to 270V AC | DC: 30-60V DC ; AC: 18-36V AC | | | | | | | | | | | | | | | | |
| LCD/LED Parameter Indications | Integration of Energy | | | | | | | | | | | | | | | | | |
| Display Reset | Programmable (for energy) | | | | | | | | | | | | | | | | | |
| Memory Retention for Energy | 10 years | | | | | | | | | | | | | | | | | |
| Communication | RS485 Modbus RTU communication in multi-drop mode | | | | | | | | | | | | | | | | | |
| Temperature | Operating : -5°C to +60°C, Storage: -20°C to +75°C | | | | | | | | | | | | | | | | | |
| Humidity (non-condensing) | Upto 85% RH | | | | | | | | | | | | | | | | | |
| Order Code | <table border="1"> <thead> <tr> <th>Order Code</th> <th>Supply Voltage</th> <th>Output</th> <th>Certification</th> </tr> </thead> <tbody> <tr> <td>MFM384-R-C</td> <td>85-270V AC</td> <td>Commn (RS485)</td> <td>CE</td> </tr> </tbody> </table> | Order Code | Supply Voltage | Output | Certification | MFM384-R-C | 85-270V AC | Commn (RS485) | CE | <table border="1"> <thead> <tr> <th>Order Code</th> <th>Supply Voltage</th> <th>Output</th> <th>Certification</th> </tr> </thead> <tbody> <tr> <td>MFM384-R-C-48V DC</td> <td>DC: 30-60V DC AC: 18-28V AC</td> <td>Commn (RS485)</td> <td>CE</td> </tr> </tbody> </table> | Order Code | Supply Voltage | Output | Certification | MFM384-R-C-48V DC | DC: 30-60V DC AC: 18-28V AC | Commn (RS485) | CE |
| Order Code | Supply Voltage | Output | Certification | | | | | | | | | | | | | | | |
| MFM384-R-C | 85-270V AC | Commn (RS485) | CE | | | | | | | | | | | | | | | |
| Order Code | Supply Voltage | Output | Certification | | | | | | | | | | | | | | | |
| MFM384-R-C-48V DC | DC: 30-60V DC AC: 18-28V AC | Commn (RS485) | CE | | | | | | | | | | | | | | | |
| Size (Bezel/Cutout) / Dimensions | (70 x 90) / Refer diagram F on page 10 | | | | | | | | | | | | | | | | | |

Refer terminal diagram on page no. 8



EM368



EM306A

| DESCRIPTION | ENERGY METER | ENERGY METER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|----------------|--------|---------------|---------------|--|-------------|--------------|---------------|----|-----------|-------|---|---|--|--|--|----------|---|---|--|---|---|---------|---|---|---|--|--|------------|---|---|---|---|---|---|------------|----------------|--------|---------|--------------|--------|---|---|
| Functions | <ul style="list-style-type: none"> • 3Ø Power (Active, Reactive) • 3Ø Power Factor • Energy (Active, Reactive, Apparent) • Programmable CT/PT Primary/Secondary • Modbus RTU Communication (RS485) (Optional) • Pulse Output | <ul style="list-style-type: none"> • Energy (Active) • Pulse Output • Programmable CT Primary / Secondary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Liquid crystal display with backlight | LED Display | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Digits | 8 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input Type | 3 Ø - 3/4 wire, 2 Ø - 3 wire, 1 Ø - 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 | 45 to 65 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | For energy- 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M, 10M (depending upon CT ratio X PT ratio) For Power - Auto resolution For Power factor -0.01 | For energy- 0.01k, 0.1k, 1k, 10k (depending upon CT ratio) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accuracy Class | Class1 for Active/Reactive/Apparent energy 1% for Active/Reactive power ±1% for Power factor and Avg. Power factor | Class1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CT Primary | 1A / 5A upto 10,000A (Programmable for any Value) Note : 1A or 5A depends upon the CT secondary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CT Secondary | 1A or 5A (Programmable) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PT Primary | 100V to 500kV (Programmable for any Value) | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PT Secondary | 100V to 500V AC (phase to phase) (Programmable for any Value) | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Supply Voltage | 100 to 270V AC (50/60 Hz), (Power Consumption : Less than 8VA) | 230V AC, ±20% (50/60 Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display Scrolling | Automatic | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCD/LED Parameter indication | INT, X10 (Resolution of 10), REV (Reverse connected CT warning) on LCD | INT, X10 (Resolution of 10), REV (Reverse connected CT warning) via LED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display Reset | Available (Password Protected) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory Retention for Energy | 10 years | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output | Pulse Output: Voltage range - 24V DC max. Current capacity - 100 mA max. Pulse Width: 100 ms ± 5 ms. | Pulse Output: Voltage range - 24V DC max. Current capacity - 100 mA max. / INT RATE = 1000 imp / kWh Pulse Width: 100 ms ± 5 ms. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Communication | RS485 MODBUS Communication (Optional) | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature / Humidity (non-condensing) | Operating: -10°C to 55°C, Storage: -20°C to 75°C / Upto 85% RH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order Code | <table border="1"> <thead> <tr> <th rowspan="2">Order Code</th> <th>Supply Voltage</th> <th colspan="2">Output</th> <th colspan="2">Certification</th> </tr> <tr> <th>100-270V AC</th> <th>Pulse Output</th> <th>Commn (RS485)</th> <th>CE</th> <th>UL LISTED</th> </tr> </thead> <tbody> <tr> <td>EM368</td> <td>■</td> <td>■</td> <td></td> <td></td> <td></td> </tr> <tr> <td>EM368-CU</td> <td>■</td> <td>■</td> <td></td> <td>■</td> <td>■</td> </tr> <tr> <td>EM368-C</td> <td>■</td> <td>■</td> <td>■</td> <td></td> <td></td> </tr> <tr> <td>EM368-C-CU</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> </tr> </tbody> </table> | Order Code | Supply Voltage | Output | | Certification | | 100-270V AC | Pulse Output | Commn (RS485) | CE | UL LISTED | EM368 | ■ | ■ | | | | EM368-CU | ■ | ■ | | ■ | ■ | EM368-C | ■ | ■ | ■ | | | EM368-C-CU | ■ | ■ | ■ | ■ | ■ | <table border="1"> <thead> <tr> <th rowspan="2">Order Code</th> <th>Supply Voltage</th> <th>Output</th> </tr> <tr> <th>230V AC</th> <th>Pulse Output</th> </tr> </thead> <tbody> <tr> <td>EM306A</td> <td>■</td> <td>■</td> </tr> </tbody> </table> | Order Code | Supply Voltage | Output | 230V AC | Pulse Output | EM306A | ■ | ■ |
| Order Code | Supply Voltage | | Output | | Certification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 100-270V AC | Pulse Output | Commn (RS485) | CE | UL LISTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EM368 | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EM368-CU | ■ | ■ | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EM368-C | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EM368-C-CU | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order Code | Supply Voltage | Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 230V AC | Pulse Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EM306A | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Size (Bezel/Cutout) / Dimensions | (96 x 96 / 92 x 92) / Refer diagram A on page 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Refer terminal diagram on page no. 8



VAF36A



VAF39A



VAF39A-1

| DESCRIPTION | VAF METER | VAF METER | VAF METER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|-----------|---------------|--|---------|---------|----|-----------|---------------|--|---|---|--|---------------|--|---|---|---|----------------|---|--|---|--|----------------|---|--|---|---|---|------------|----------------|--|---------------|--|---------|---------|----|-----------|---------------|--|---|---|--|---------------|--|---|---|---|----------------|---|--|---|--|----------------|---|--|---|---|---|------------|----------------|---------|---------------|---|
| Functions | <ul style="list-style-type: none"> • 3Ø (True RMS) Voltage • 3Ø (True RMS) Current • Frequency • Run Hour (hour - Mins) • RPM • Programmable CT Primary, PT Primary & PT Secondary | | <ul style="list-style-type: none"> • 3Ø (True RMS) Voltage • 3Ø (True RMS) Current • Frequency • Run Hour (hour - Mins) • RPM • Programmable CT Primary, PT Primary & PT Secondary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Liquid crystal display with backlight | | 7 segment LED; Height: 0.5" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Digits | 3 rows of 3 digits, Bar graph | | 3 rows of 3 digits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input Type | | 3 Ø - 3 wire, 3 Ø - 4 wire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated input Voltage | | 11 to 300V AC max Phase to Neutral 19 to 519V AC max Phase to Phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Input Current | | Nominal 5A AC (min-20mA, max-6A) | Nominal 5A AC (min-30mA, max-6A) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Burden (max) | | 0.5 VA max @ 5A per phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency | | 50 or 60 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | | Current : 0.01, 0.1, 1 A/kA (Depending on CT primary) Voltage : 0.1 V / kV RPM : 0.1 Run Hour : 0.1hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accuracy Class | | ±0.5% of F.S. ±2digit for Voltage(L-N / L-L) & Average Voltage (L-N / L-L) ±1% of F.S. ±2 digit for Current & Average current ±0.1Hz ±1digit for Frequency Run Hour : ±1%, RPM : ±0.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CT Primary | | 5A to 10,000A (Programmable for any value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CT Secondary | | 5A fixed (External CT must be connected for current more than 5A) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PT Primary | | 100V to 500kV (Programmable for any value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PT Secondary | | 100 to 500V AC (L-L) (Programmable for any value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Supply Voltage | 230V AC, ±20%, (50/60 Hz), 110V AC, ±20%, (50/60 Hz), (Power Consumption : 5VA) | | 230V AC, ±20%, (50/60 Hz) (Power Consumption: 5VA) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display Scrolling | | Automatic / Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCD/LED Parameter indications | 1) Numerical display for all measured parameters 2) Percentage of current in bargraph form | | LEDs for all measured parameters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature / Humidity (non-condensing) | | Operating: -10°C to 55°C, Storage: -20°C to 75°C/Upto 85% RH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Order Code | Supply Voltage | | Certification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 110V AC | 230V AC | CE | UL LISTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAF36A-230-CE | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAF36A-230-CU | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAF36A-110V-CE | ■ | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAF36A-110V-CU | ■ | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order Code | Supply Voltage | | Certification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 110V AC | 230V AC | CE | UL LISTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAF39A-230-CE | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAF39A-230-CU | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAF39A-110V-CE | ■ | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAF39A-110V-CU | ■ | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order Code | Supply Voltage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 230V AC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAF39A-1-230V | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Size (Bezel/Cutout) / Dimensions | | (96 x 96 / 92 x 92) / Refer diagram A on page 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Refer terminal diagram on page no. 9



MA12



MV205



MF316



MP314

| DESCRIPTION | AMMETER | VOLTMETER | FREQUENCY METER | POWER FACTOR METER |
|--|---|---|---|--|
| Functions | <ul style="list-style-type: none"> 4 Digit, 7 segment LED Display True RMS Measurement For 1 Phase 2 wire electrical network CT Primary Programmable upto 4000A | <ul style="list-style-type: none"> 3 Digit, 7 segment LED Display True RMS Measurement For 1 Phase 2 wire electrical network | <ul style="list-style-type: none"> 4 Digit, 7 segment LED 0.01 Resolution | <ul style="list-style-type: none"> 4 Digit, 7 segment LED 0.001 Resolution |
| Display | 4 digit, 7 segment LED Display | 3 digit, 7 segment LED Display | 4 digit, 7 segment LED Display | |
| Display Range | 0 to 4960A (Scaled as per CT) | 0 to 516V | 45 to 65 Hz | -1.000 to 1.000 |
| Input Range | 50mA to 5A AC | 50 to 480V AC | 45 to 65 Hz | Current : 0.250-6 A(AC) |
| Resolution | 0.001, 0.01, 0.1, 1 (depending on CT setting) | 1 | 0.01 | 0.001 |
| Over-range / Under range indication | "Or" for Input > 124% of CT Setting | "Or" for Input > 516V AC | "Ovfr" (Over 65 Hz) "Ur" (Under 45 Hz) | "Curr" (For current absent.) |
| Method | True RMS | | --- | |
| Accuracy | ±0.5% of CT setting | ±0.5% of F.S. over rated operating conditions | ± 0.05 Hz | ± 0.5% ± 1 digit |
| CT Primary | 5,10,20,30,40,50,60,75,80,100, 150, 200,250,300,400,500,600, 800,1000,1200,1500,1600, 2000, 2500,3000,4000 | --- | --- | |
| Electrical Connection | 1Ø - 2 wire | | | |
| Continuous Max. Input Rating | 6.2A AC Max. | 516V AC Max. | --- | |
| Supply Voltage | 240V AC, ±20%, 50/60Hz 110V AC, ±20%, 50/60Hz | | 240V AC, ±20%, 45-65Hz 110V AC, ±20%, 45-65Hz | 240V AC, ±20%, 50/60Hz 110V AC, ±20%, 50/60Hz |
| Power Consumption | 5VA Max. | | | |
| Temperature / Humidity (non-condensing) | Operating: -10°C to 55°C, Storage: -20°C to 75°C/Upto 85% RH | | | |

Order Code¹

| Order Code | CT Type | Supply Voltage | | Certification | |
|--------------|---------|----------------|---------|---------------|-----------|
| | | 110V AC | 240V AC | CE | UL LISTED |
| MA12 | ■ | ■ | ■ | ■ | ■ |
| MA12-CU | ■ | ■ | ■ | ■ | ■ |
| MA12-110V | ■ | ■ | ■ | ■ | ■ |
| MA12-110V-CU | ■ | ■ | ■ | ■ | ■ |
| MA202 | ■ | ■ | ■ | ■ | ■ |
| MA202-CU | ■ | ■ | ■ | ■ | ■ |
| MA302 | ■ | ■ | ■ | ■ | ■ |

| Order Code | Supply Voltage | | Certification | |
|--------------|----------------|---------|---------------|-----------|
| | 110V AC | 240V AC | CE | UL LISTED |
| MV15 | ■ | ■ | ■ | ■ |
| MV15-CU | ■ | ■ | ■ | ■ |
| MV15-110V | ■ | ■ | ■ | ■ |
| MV15-110V-CU | ■ | ■ | ■ | ■ |
| MV205 | ■ | ■ | ■ | ■ |
| MV205-CU | ■ | ■ | ■ | ■ |
| MV305 | ■ | ■ | ■ | ■ |

| Order Code | Supply Voltage | | Certification | |
|--------------|----------------|---------|---------------|-----------|
| | 110V AC | 240V AC | CE | UL LISTED |
| MF16 | ■ | ■ | ■ | ■ |
| MF16-CU | ■ | ■ | ■ | ■ |
| MF16-110V | ■ | ■ | ■ | ■ |
| MF16-110V-CU | ■ | ■ | ■ | ■ |
| MF216 | ■ | ■ | ■ | ■ |
| MF316 | ■ | ■ | ■ | ■ |

| Order Code | Supply Voltage | | Certification | |
|--------------|----------------|---------|---------------|-----------|
| | 110V AC | 240V AC | CE | UL LISTED |
| MP14 | ■ | ■ | ■ | ■ |
| MP14-CU | ■ | ■ | ■ | ■ |
| MP14-110V | ■ | ■ | ■ | ■ |
| MP14-110V-CU | ■ | ■ | ■ | ■ |
| MP214 | ■ | ■ | ■ | ■ |
| MP314 | ■ | ■ | ■ | ■ |

Note: CT Type-There is an internal CT with CT setting (5-4000A). For current input >5A, external CT is required.

Size (Bezel/Cutout) / Dimensions

MA12, MV15, MF16, MP14 : (48 x 96 / 46 x 92) / Refer diagram C on page 10
 MA202, MV205, MF216, MP214 : (72 x 72 / 67.5 x 67.5) / Refer diagram B on page 10
 MA302, MV305, MF316, MP314 : (96 x 96 / 92 x 92) / Refer diagram E on page 10



MA12/MA202/MA302



MV15/MV205/MV305



MF16/MF216/MF316



MP14/MP214/MP314

¹For other variants, visit us at www.selec.com
 Refer terminal diagram on page no. 9



| DESCRIPTION | 1Ø AMMETER | 3Ø AMMETER | 1Ø VOLTMETER | 3Ø VOLTMETER |
|--|--|--|---|---|
| Functions | <ul style="list-style-type: none"> Liquid Crystal Display Single row, 4 digit Digital readout with Analog style bargraph indication True RMS measurement CT primary programmable up to 5000A For 1 phase 2 wire electrical network | <ul style="list-style-type: none"> Liquid Crystal Display Single row, 4 digit Digital readout with Analog style bargraph indication True RMS measurement CT primary programmable up to 5000A For 3 phase 4 wire electrical network Page selection using selector switch | <ul style="list-style-type: none"> Liquid Crystal Display Single row, 3 digit Digital readout with Analog style bargraph indication True RMS measurement For 1 phase 2 wire electrical network | <ul style="list-style-type: none"> Liquid Crystal Display Single row, 3 digit Digital readout with Analog style bargraph indication True RMS measurement For 3 phase 4 wire electrical network Page selection using selector switch |
| Display | 4 digit, Liquid Crystal Display | | 3 digit, Liquid Crystal Display | |
| Display Range | 0 - 6200A | | 0 - 516V | |
| Bargraph | Analog style bargraph indication | | | |
| Input Type | AC | | | |
| Input Range | 50mA - 5A | | 50 - 480V | |
| Measurement Type | True RMS | | | |
| Continuous Max. Input Rating | 6.2A | | 516V AC | |
| Over-range indication | "Or" for Input > 124% of CT Primary Setting | | "Or" for Input > 516V AC | |
| Burden / Input Impedance | Input Burden : 0.5VA at 5A | | Input Impedance : 1M Ω (± 5%) | |
| Electrical Connection | 1Ø - 2 wire | 3Ø - 4 wire | 1Ø - 2 wire | 3Ø - 4 wire |
| Accuracy | ± 0.5% of F.S. (CT primary setting) | | ± 0.5% of F.S. | |
| Resolution | 0.001, 0.01, 0.1, 1A (Depending on CT Primary Setting) | | 1V | |
| CT Primary | 5, 10, 15, 20, 25, 30, 40, 50, 60, 75, 80, 100, 125, 150, 175, 200, 250, 300, 400, 500, 600, 630, 750, 800, 1000, 1200, 1500, 1600, 2000, 2250, 2500, 3000, 3200, 4000, 5000. (Default setting : 5A AC) | | --- | |
| CT Secondary | 5A Fixed | | --- | |
| Sampling Rate | 3 samples / second | | | |
| Supply Voltage | 240V AC (±20%) ; 110V AC (±20%), (Power Consumption : 12VA) | | 240V AC (±20%) ; 110V AC (±20%), (Power Consumption : 5VA) | |
| Temperature / Humidity (non-condensing) | Operating: -10°C to 55°C, Storage: -20°C to 75°C/Upto 85% RH | | | |

| Order Code | CT Type | Supply Voltage | | Certification | |
|----------------|---------|----------------|---------|---------------|--------------|
| | | 110V AC | 240V AC | CE | cULus LISTED |
| MA501 | ■ | | ■ | | |
| MA501-CU | ■ | | ■ | ■ | ■ |
| MA501-110V | ■ | ■ | | | |
| MA501-110V-CU | ■ | ■ | | ■ | ■ |
| MA201 | ■ | | ■ | | |
| MA201-CU | ■ | | ■ | ■ | ■ |
| MA201-110V | ■ | ■ | | | |
| MA201-110V-CU | ■ | ■ | | ■ | ■ |
| MA2301 | ■ | | ■ | | |
| MA2301-CU | ■ | | ■ | ■ | ■ |
| MA2301-110V | ■ | ■ | | | |
| MA2301-110V-CU | ■ | ■ | | ■ | ■ |

| Order Code | Supply Voltage | | Certification | |
|----------------|----------------|---------|---------------|--------------|
| | 110V AC | 240V AC | CE | cULus LISTED |
| MV507 | | ■ | | |
| MV507-CU | | ■ | ■ | ■ |
| MV507-110V | ■ | | | |
| MV507-110V-CU | ■ | | ■ | ■ |
| MV207 | | ■ | | |
| MV207-CU | | ■ | ■ | ■ |
| MV207-110V | ■ | | | |
| MV207-110V-CU | ■ | | ■ | ■ |
| MV2307 | | ■ | | |
| MV2307-CU | | ■ | ■ | ■ |
| MV2307-110V | ■ | | | |
| MV2307-110V-CU | ■ | | ■ | ■ |

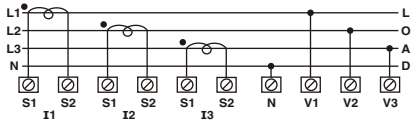
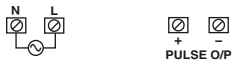
Note: CT Type-There is an internal CT with CT setting (5-5000A). For current input >5A, external CT is required.

| | | |
|---|---|---|
| Size (Bezel/Cutout) / Dimensions | MA501 : (48 x 48 / 46.5 x 46.5) / Refer diagram D on page 10 MA201 & MA2301 : (72 x 72 / 67.5 x 67.5) / Refer diagram B on page 10 | MV507 : (48 x 48 / 46.5 x 46.5) / Refer diagram D on page 10 MV207 & MV2307 : (72 x 72 / 67.5 x 67.5) / Refer diagram B on page 10 |
|---|---|---|

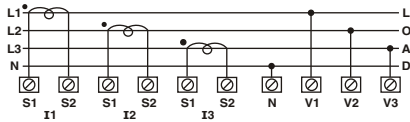
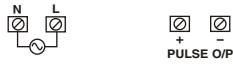
All sizes mentioned are in mm unless specified otherwise. Specifications are subject to change without prior notice. Refer terminal diagram on page no. 9 & 10

Terminal Connections

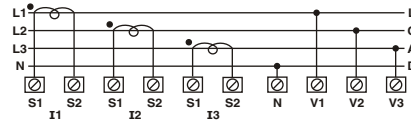
MFM384



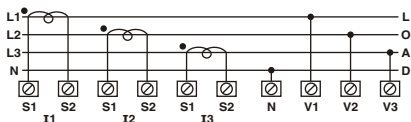
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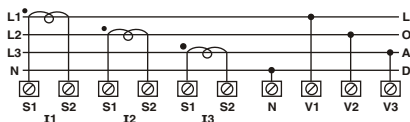
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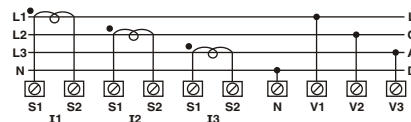
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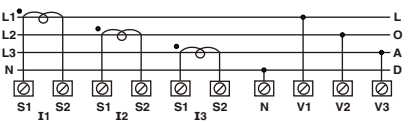
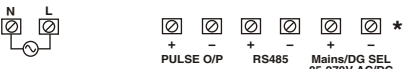
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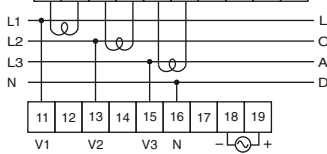
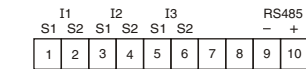
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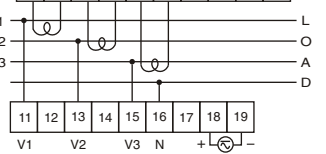
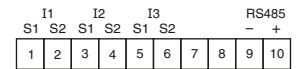
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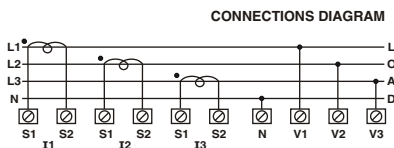
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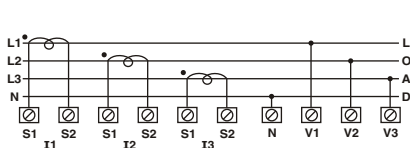
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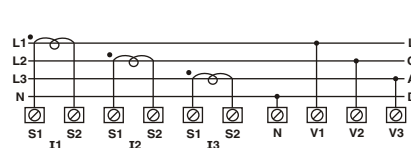
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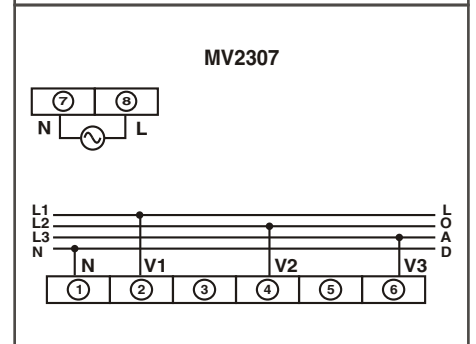
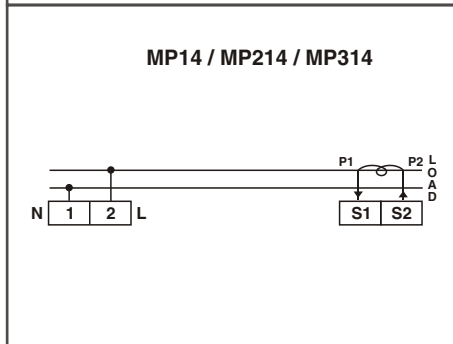
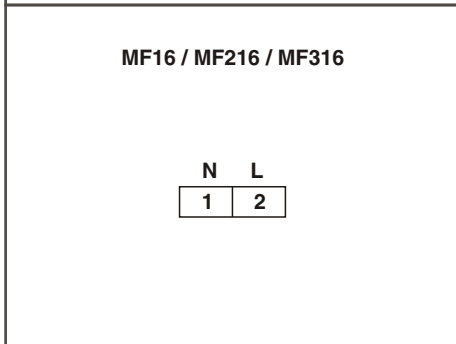
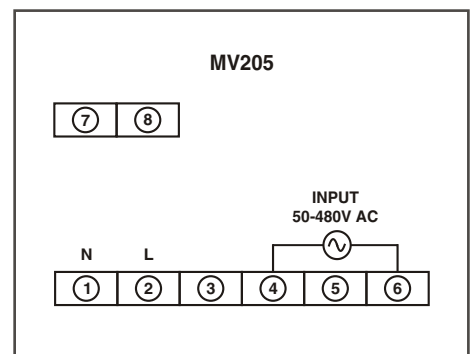
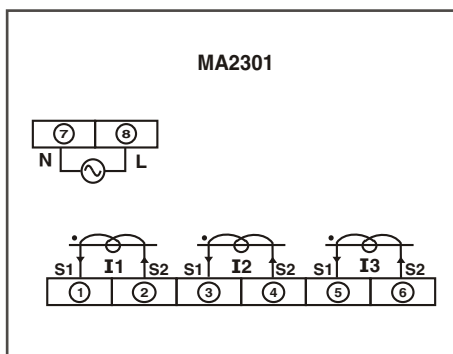
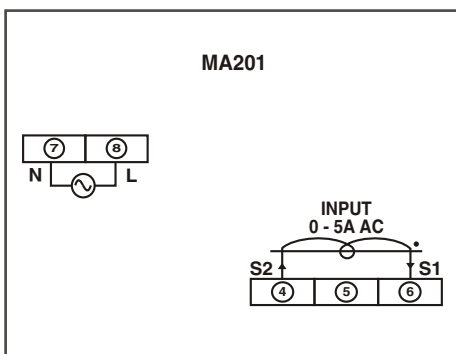
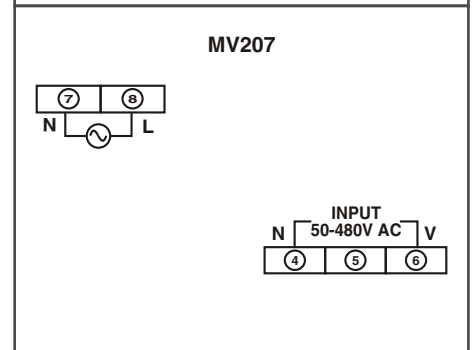
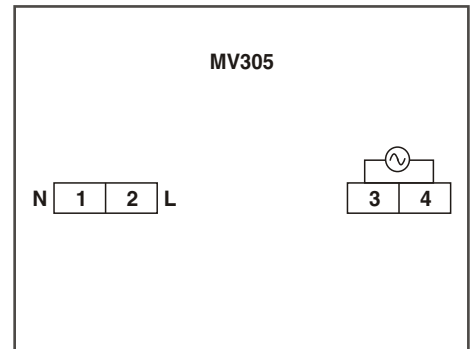
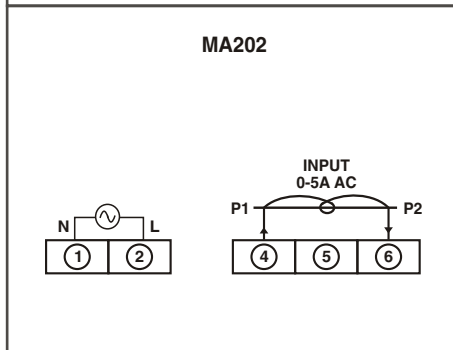
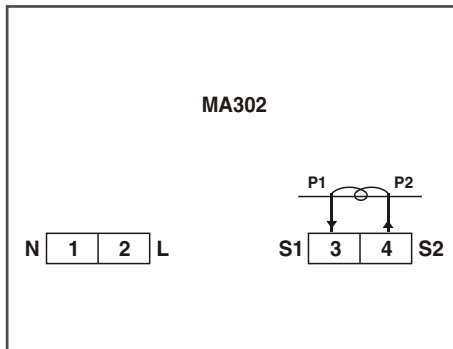
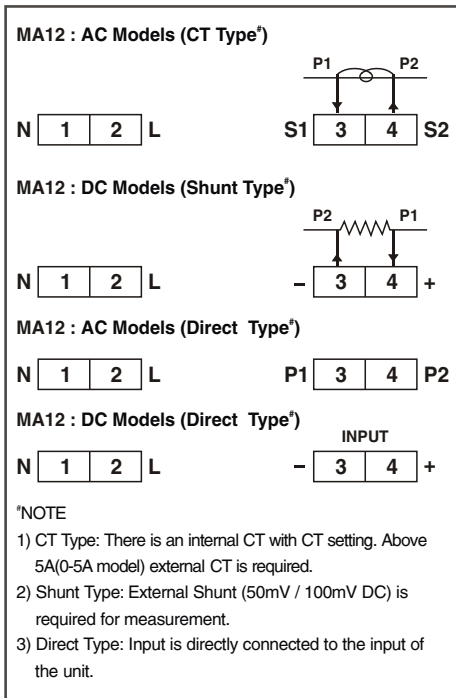
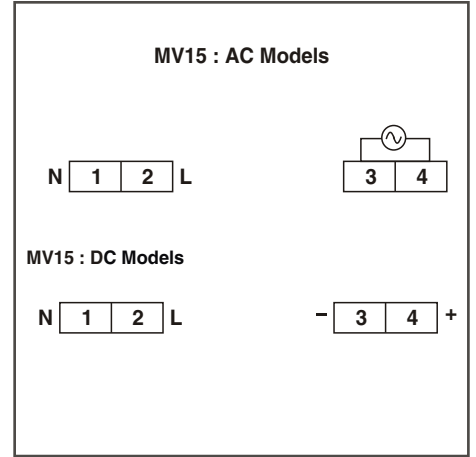
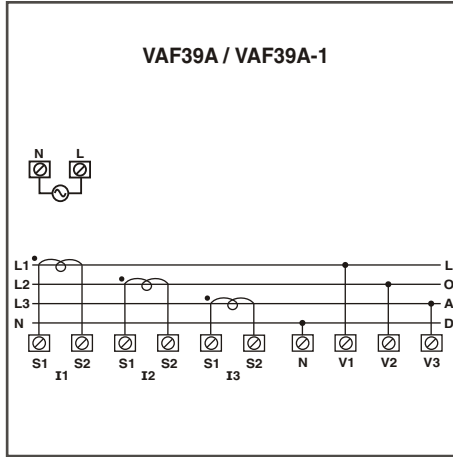
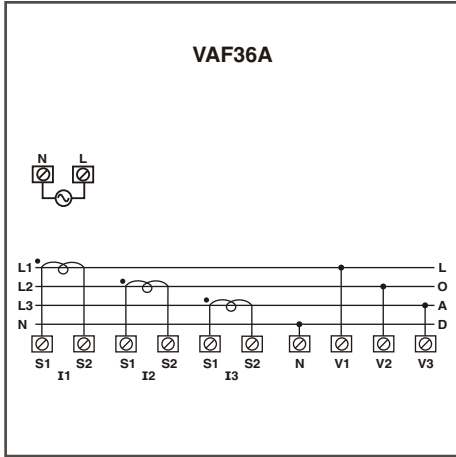
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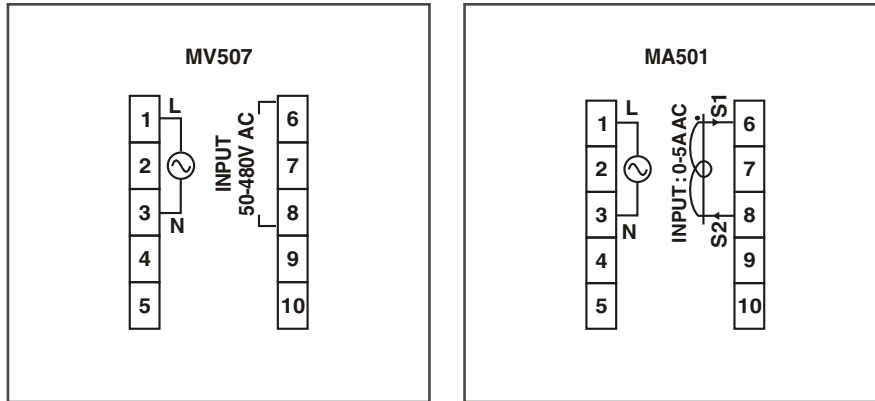
EM368-C



Terminal Connections



Terminal Connections



Dimensions

