



**Features:**

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

**Size:** 96mm x 96mm (1/4 DIN)

**Certifications:** cULus LISTED

**Technical Specifications**

**Display**

Display	Liquid crystal display with backlight
Digit	3 rows of 4 digits
Digit Height	0.44" (11.4mm) 0.25" (6.6mm) (for Lowest 8 digits)

**Input Specifications**

Electrical Connection	3Ø-3/4 wire, 2Ø-3 wire, 1Ø-2 wire
Input Voltage Range	19 to 519V AC, (Phase to Phase) 11 to 300V AC, (Phase to Neutral)
Input Current Range	10mA - 5A (6A Max)
Frequency	45Hz - 65Hz
Display Scrolling	Automatic / manual
Display Reset	Programmable (for energy)
Resolution	For energy: 0.1k, 1k (depending upon CT ratio X PT ratio) For Power, Voltage, Current: Auto resolution For Power factor: 0.001
Accuracy	Voltage (L-N / L-L), Current: ±0.5% of F.S Power factor: ±1% Frequency: ±0.1% (For V>20V L-N, V>35V L-L) Power (kW, kVA, kVA): 1% Active energy: Class 1
Memory Retention	10 years
Measuring Parameters	Voltage (L-L / L-N) (Individual / Average) Current (I1, I2, I3) (Individual / Average) Frequency, Power Factor (Individual / Average), Active, Reactive & Apparent Power (Individual/Total), Active Energy (Total)

**Output Specifications**

Pulse Output	Voltage Range: External 24V DC Current Capacity: 100mA max Pulse Width: 100 ms ±5 ms
Communication	RS485 MODBUS Communication

**Supply Specifications**

Auxiliary Supply	85 to 270V AC (50 / 60 Hz)
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**Resettable Parameters**

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 10000V (Programmable for any Value)
PT Secondary	100V to 500V (Programmable for any Value)

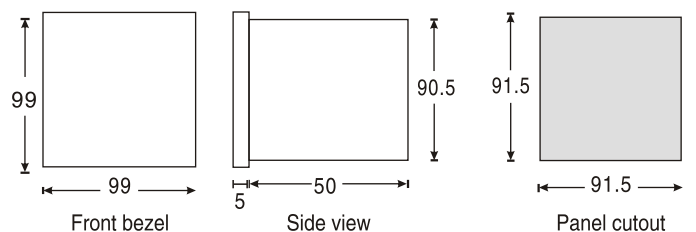
**Environmental Specifications**

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

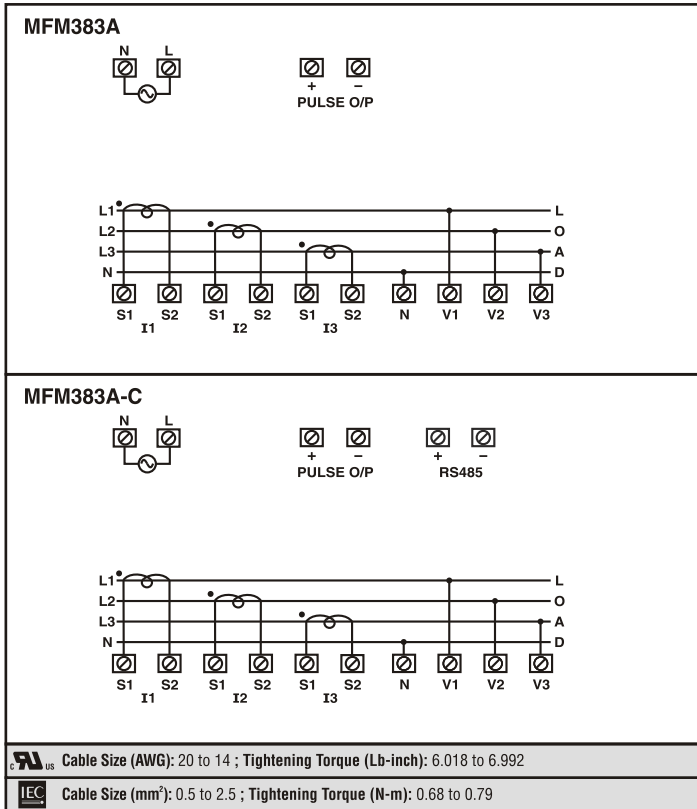
**Mechanical Specifications**

Mounting	Panel mount
Weight	310gms
Protection Level	IP65 for faceplate

**Dimensions**



## Terminal Connections



## Ordering Information

Part No.	Supply Voltage	Output		Certification
	85-270V AC	Pulse Output	Commn (RS485)	
MFM383A	■	■		
MFM383A-CU	■	■		■

**Note :** 1) For MFM383A-C(Communication version) / MFM383A-C-CU please contact factory.  
2) Only MFM383A-CU is UL approved.

**EN-VIEW:** Windows based communication software available for data logging.