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LCD with Backlight, 4rows, Display 8 digit for energy display

Digits 4 digits (Lowest 8 digits for energy display)

Digit height 0.45 inch

Bargraph For Current representation

For energy: 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M Resolution

(depending upon CT ratio x PT ratio) For Power, Voltage, Current : Auto resolution For Power factor : 0.001

Type of measurement TRUE RMS Sampling rate 64 Samples / Cycle

Electrical connections  $3\emptyset$  - 3 wire (Delta),  $3\emptyset$  - 4 wire (Wye),

2Ø - 3 wire, 1Ø - 2 wire (L - N)

Data update rate

PT primary 100V to 500kV (Programmable for any value)

PT secondary 100V to 500V AC (L-L)

(Programmable for any value) 240VAC L - N / 415V AC L - L

Measured V with full range 11 to 300V AC [L - N], 19 to 519V AC [L - L]

≥0.8M Impedance 45 - 65Hz Frequency range

<0.2VA at 300V AC L-N / Phase VA burden

CT ratings primary 1 / 5A to 10kA (Programmable for any value)

CT ratings secondary 1 / 5A (Programmable for any value)

5A Current nominal

Measured Amps with over range 11mA to 6A

& Crest factor

Voltage nominal

Withstand 120A for 1sec Frequency range 45 - 65Hz VA burden 0.5VA at 5A / phase

	MFM384-C-CE MFM384-C-CU	MFM384-C-CE-CL05
Voltage V <sub>L-N</sub>	±0.5% of F.S.	±0.5% of F.S.
Voltage V <sub>L-L</sub>	±0.5% of F.S.	±0.5% of F.S.
Current	±0.5% of F.S.	±0.5% of F.S.
Frequency	±0.1% ; For L-N V>20V, For L-L V>35V	±0.1% ; For L-N V>20V, For L-L V>35V
Active Power	1%	±0.5%
Apparent power	1%	±0.5%
Reactive Power	1%	±1%
Power factor	±0.01	±0.005
Active energy	Class 1	Class 0.5S (IEC 62053-22)
Reactive energy	Class 1	Class 2 (IEC 62053-23)
Apparent energy	Class 1	Class 0.5S
MAX / MIN kW	1%	±0.5%
MAX / MIN kVAr	1%	±1%
MAX kVA	1%	±0.5%

Pulse output	Voltage range : External 24V DC max Current capacity : 100mA max Pulse width : 100ms ±5ms Configurable pulse weight from 1 to 9999000 pulses / kWh
Device ID & Parity	1 to 255 & None, Odd, Even
Protocol & Interface	RS485 and MODBUS RTU
Transmission mode	Half duplex
Data types	Float and Integer
Transmission distance	500m maximum
Transmission speed	1200, 2400, 4800, 9600,19200 (in bps)
Stop bits	1 or 2
Response time	100ms (max and independent of baud rate)
Isolation	2kV RMS

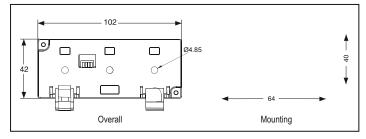
Weight	318gms (11Oz)
Material	LEXAN 923-701 BLACK
IP degree of protection	(IEC 60529) IP54 Front only
Torque at terminals	0.68N-m to 0.79 N-m
Wire gauge at terminals	20 to 14AWG;75°C
Mounting position	Vertical

# 3PH 5A CONVERTER-G

## Specification

Rated input current	Nominal 5A AC (Min 50mA - Max 6A)
No. of phases	3
Inner dia	4.85mm
Mounting	Din rail & Wall mount

## Dimension (All are in mm)

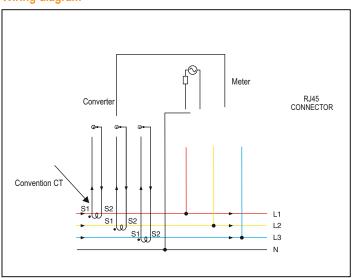


#### DIP switch selection for converter

DIP Configuration	СТ	
	5A	
	400A	
	500A	
	630A	
	800A	
Switch Setting Example -		

Conventional CTs to be used along with converter

# Wiring diagram



## Compliance

Applicable EMI / EMC Standards				
Product Standard : IEC 61326-1				
Category		Standards Compliance		
ESD Immunity	IEC 61000-4-2	Level II (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 (3Vrms)		
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 II (2kV)		

# **Ordering information**

Product code	Supply voltage / Current range	Certification
CT 1PH-D13mm-80A-G	80A	C€
CT 1PH-30x10mm-250A-G	250A	C€
CT 3PH-D13mm-80A-G	80A	C€
CT 3PH-21x25mm-250A-G	250A	C€
3PH 5A CONVERTER-G		C€

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