Digital Ammeter

MA12



48 x 96mm

Features:

- Class 0.5 accuracy
- True RMS current measurement
- Available in LED display
- CT programmable up to 6300A

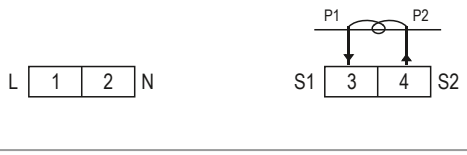
Certifications: CE

Technical specifications

Display specifications	
Display	7 segment LED display
Digits	4
Display height	0.56” (14.2 mm)
Display range	0 - 9072A
Resolution	0.001, 0.01, 0.1, 1 A (depending upon CT primary)
Input specifications	
Electrical connection	1Ø - 2 wire
Input type	AC
Input current range	50mA - 5A AC
Continuous max. input current	140% of rated current
Accuracy	±0.5% of F.S (CT Primary / Shunt setting)
Over range indication	>7A AC
Frequency range	50/60 Hz
Electrical specification	
Installation category	III
IP Protection	IP51 - front, IP20 - back
Sampling rate	64 Samples / Second
Auxiliary supply specifications	
Auxiliary supply	240V AC ±20%, (50/60 Hz)
Supply frequency	50/60 Hz
Input burden	0.5VA @5A AC
Power consumption	20VA max @288V AC
Settable parameters	
CT Primary setting	5, 10, 15, 20, 25, 30, 32, 40, 50, 60, 63, 70, 75, 80, 100, 125, 150, 160, 175, 200, 250 , 300, 350, 400, 500, 600, 700, 750, 800, 1000, 1200, 1250, 1500, 1600, 2000, 2500, 3000, 3200, 3500, 4000, 5000, 6000, 6300
CT Secondary setting	5A fixed
Environmental specifications	
Operating temperature	-10 °C to +55 °C (14 °F to 13 °F)
Storage temperature	-20 °C to +75 °C (-4 °F to 167 °F)
Humidity (non-condensing)	Upto 95% RH
Pollution degree	2

Mechanical specifications	
Mounting	Panel mount
Bezel size	48mm x 96mm
Overall depth	33.7mm
Weight	94 gm

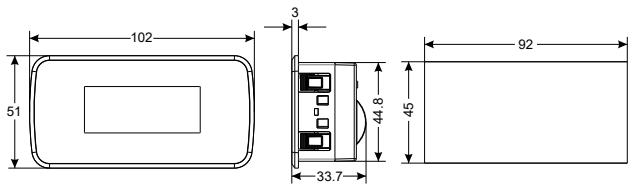
Terminal connections



Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992

Cable Size (mm): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79

Dimensions (All are in mm)



Front bezel | Side view | Panel cutout

Standards compliance

Applicable EMI / EMC Standards		
Product standard : IEC 61326 - 1		
Category		**Standards compliance**
ESD Immunity	IEC 61000 - 4 - 2	Level IV (Air discharge : 15kV), (Contact discharge : 8kV)
Surge immunity	IEC 61000 - 4 - 5	+ / - 2kV Common mode, (Line to ground) + / - 1kV differential mode, (Line to line)
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 (3V / m)
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 III (2kV)

Ordering information

Product code	Supply voltage	Certification
MA12	240V AC (± 20%)	---
MA12-CE	240V AC (± 20%)	CE