



**Features :**

- Class 0.5 accuracy
- True RMS current measurement
- Available in LED display
- CT programmable up to 4000A
- CE & RoHS certified

Certifications :

**Display specifications**

Display	7 segment LED Display
Digits	4
Digit height	0.56" (14.2mm)
Display range	0 - 4960A
Resolution	0.001, 0.01, 0.1, 1A (Depending upon CT primary)

**Input specifications**

Electrical connection	1 Ø-2 wire
Input type	AC / DC
Input current range	50mA - 5A AC
Continuous max. input current	120% of rated current
Accuracy	±0.5% of F.S (CT primary / shunt setting)
Overrange indication	>6.2AAC
Frequency range	50 / 60Hz

**Electrical specification**

Installation category	III
High voltage test	2kV AC, 50Hz
IP protection	IP51 Front only
Sampling rate	3 samples / second
Dielectric withstand voltage	2kV AC between auxiliary supply & measuring input
Rated impulse withstand voltage	3.5kV (1.2/50µS)

**Auxiliary supply specifications**

Auxiliary supply	AC: 240V AC ±20%, (50 / 60Hz) 110V AC ±20% , (60Hz)
Supply frequency	50 / 60Hz
Input burden	0.5 VA @ 5AAC
Power consumption	5VA max @ 240V AC

**Settable parameters**

CT Primary setting	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 (Via tact switch)
CT Secondary setting	5A fixed

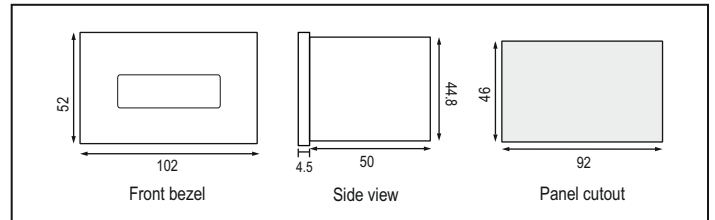
**Environmental specifications**

Operating temperature	-10°C to +55°C (14°F to 131°F)
Storage temperature	-20°C to +75°C (-4°F to 167°F)
Humidity (non-condensing)	Upto 95% RH
Pollution degree	2

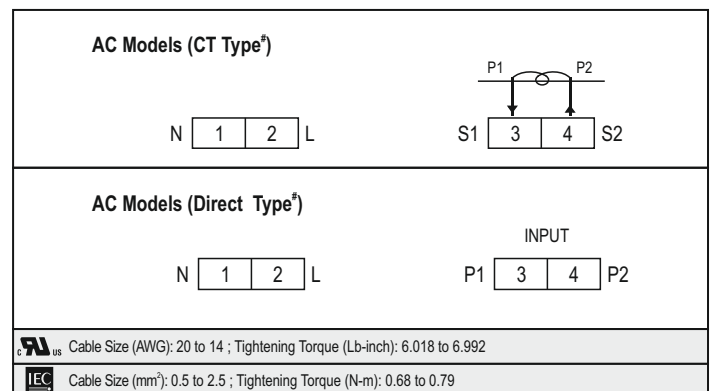
**Mechanical specifications**

Mounting	Panel mount
Bezel size	48 mm x 96 mm
Overall depth	50 mm
Weight	170 gms

**Dimensions (All are in mm)**



**Terminal connections**



Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992  
 Cable Size (mm<sup>2</sup>): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79




**#NOTE**

- 1) **CT Type:** There is an internal CT with CT setting. Above 5A(0-5A model) external CT is required.
- 2) **Direct Type:** Input is directly connected to the input of the unit.

## 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	<b>Dips</b> : 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) <b>Interruptions</b> : 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	---
MA12-CE	240V AC	CE
MA12-CU	240V AC	CE 
MA12-20A-AC	240V AC	---
MA12-75mV-DC	240V AC	---
MA12-110V-CU	110V AC	CE 
MA12-100mV-DC-110V-CU	110V AC	CE 

## Note:

- CT Type** : There is an internal CT with CT setting (5-4000A).  
For current input >5A, external CT is required.
- Direct Type** : Input is directly connected to the unit.



72 x 72mm

### Features :

- Class 0.5 accuracy
- True RMS current measurement
- Available in LED display
- CT programmable up to 4000A
- CE & RoHS certified

Certifications :  

### Display specifications

Display	7 segment LED Display
Digits	4
Digit height	0.56" (14.2mm)
Display range	0 - 4960A
Resolution	0.001, 0.01, 0.1, 1A (Depending upon CT primary)

### Input specifications

Electrical connection	1 Ø-2 wire
Input type	AC
Input current range	50mA - 5A AC
Continuous max. input current	120% of rated current
Accuracy	±0.5% of F.S
Overrange indication	>6.2A
Frequency range	50 / 60Hz

### Electrical specification

Installation category	III
High voltage test	2kV AC, 50Hz
IP protection	IP51 Front only
Sampling rate	3 samples / second
Dielectric withstand voltage	2kV AC between auxiliary supply & measuring input
Rated impulse withstand voltage	3.5kV (1.2/50µS)

### Auxiliary supply specifications

Auxiliary supply	AC: 240V AC ±20%, (50 / 60Hz) 110V AC ±20% , (60Hz)
Supply frequency	50 / 60Hz
Input burden	0.5 VA @ 5AAC
Power consumption	5VA max @ 240V AC

### Settable parameters

CT Primary setting	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 (Via tact switch)
CT Secondary setting	5A fixed

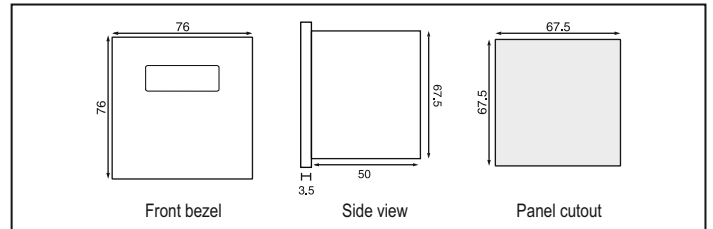
### Environmental specifications

Operating temperature	-10°C to +55°C (14°F to 131°F)
Storage temperature	-20°C to +75°C (-4°F to 167°F)
Humidity (non-condensing)	Upto 95% RH
Pollution degree	2

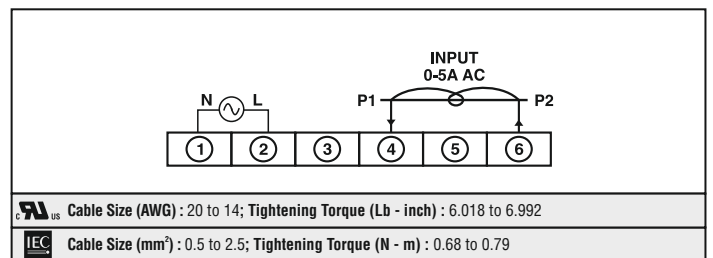
### Mechanical specifications

Mounting	Panel mount
Bezel size	72 mm x 72 mm
Overall depth	50 mm
Weight	180 gms

### Dimensions (All are in mm)





### Terminal connections



## 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	<b>Dips</b> : 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) <b>Interruptions</b> : 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
MA202	240V AC	---
MA202-CE	240V AC	CE
MA202-CU	240V AC	CE 
MA202-110V	110V AC	---
MA202-110V-CU	110V AC	CE 

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





72 x 72mm

**Features :**

- True RMS measurement
- Analog style bar graph for current representation
- CT Primary programmable up to 5000A
- Selector switch for page selection
- CE & RoHS certified

Certifications : **CE**

**Display Specifications**

Display	7 segment LCD Display
Digits	4
Digit Height	0.56" (14.2mm)
Display range	0-6200A
Resolution	0.001, 0.01, 0.1, 1A (Depending upon CT primary)

**Input Specifications**

Electrical Connection	3Ø- 4 wire
Input Type	AC
Rated current	5A
Input Current Range	50mA – 6.2A AC
Continuous Max. Input Rating	120% of rated current
Accuracy	±0.5% of F.S.
Frequency Range	50 / 60Hz

**Electrical specification**

Installation category	III
High Voltage Test	2kV AC, 50Hz
IP protection	IP51 Front only
Sampling Rate	3 samples / second
Dielectric withstand Voltage	2kV AC between auxiliary supply & measuring input
Rated Impulse withstand Voltage	2kV (1.2/50µS)

**Settable Parameters**

CT Primary Settings	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
CT Secondary Settings	5A Fixed

**Environmental Specifications**

Operating Temperature	-10°C to +55°C (14°F to 131°F)
Storage Temperature	-20°C to +75°C (-4°F to 167°F)
Humidity (non-condensing)	Upto 95% RH
Pollution degree	2
Altitude	Upto 2000 meters
Measurement Category	CAT III

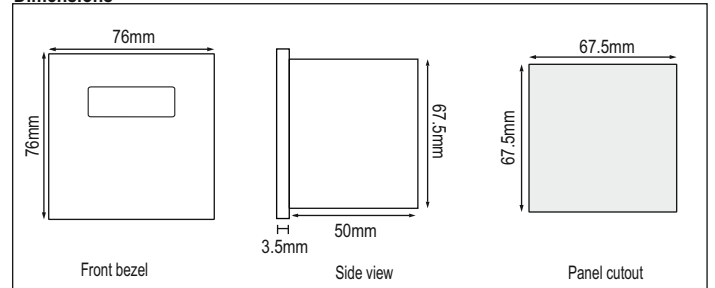
**Auxiliary Supply Specifications**

Auxiliary Supply	AC: 240V AC ±20% , (50/60Hz)
Supply Frequency	50 / 60Hz
Input Burden	0.5 VA @ 5A AC
Power Consumption	12 VA max

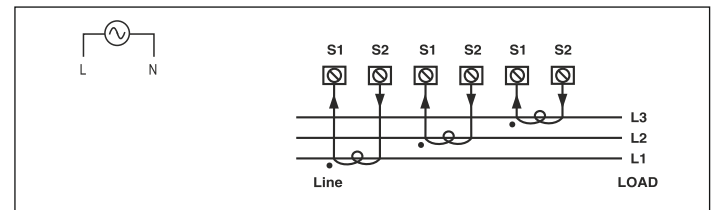
**Mechanical Specifications**

Mounting	Panel mount
Bezel size	72 mm x 72 mm
Overall depth	50 mm
Weight	163 gms
Torque at terminals	0.68 N-m to 0.79 N-m
Wire Gauge at terminals	20 to 14 AWG;75°C
Mounting position	Vertical

**Dimensions**



**Terminal Connections**



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

**IEC** Cable Size (mm<sup>2</sup>): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79

**Ordering Information**

Product Code	Supply Voltage	Certificación
MA2301	240V AC	■
MA2301-230V-CE	240V AC	CE

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

## 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	<b>Dips</b> : 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) <b>Interruptions</b> : 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)



96 x 96mm

## Features :

- 1Ø & 3Ø True RMS measurement
- Wide auxiliary supply from 40 to 300V AC/DC
- CT Primary programmable up to 999.0kA
- K LED for kilo indication
- CE & RoHS certified

Certifications : 

### Display Specifications

Display	7 segment LED Display
Digits	4
Digit Height	0.56" (14.2mm)
Display update time	1 sec
Display range	0-999.0kA
Resolution	Auto resolution (Depending on CT ratio)

### Input Specifications

Electrical Connection	3Ø - 4 wire, 3Ø - 3 wire, 1Ø - 2 wire ( MA32 1-G-40/300V for single phase only)
Input Type	AC
Rated current	5A
Input Current Range	50mA – 6A AC
Overrange indication	"Or" for input > 6.2A
Continuous Max. Input Current	120% of rated current
Accuracy	±0.5% of Full scale
Frequency Range	50 - 60Hz

### Electrical specification

Input Impedance	1MΩ (± 5%)
Installation category	III
High Voltage Test	2kV AC, 50Hz
IP protection	IP51 (Front), IP 20 (Rear)
Sampling Rate	3 samples / second
Dielectric withstand Voltage	2kV AC between auxiliary supply & measuring input
Rated Impulse withstand Voltage	2kV (1.2/50μs)

### Settable Parameters

Network selection	3 Ø-4W, 3 Ø-3W, 1 Ø-2W (Only applicable for MA32-3-G-40/300V)
CT Primary Setting	1-999.0kA (Programmable for any value)
CT Secondary Setting	1 / 5A (Programmable)

### Auxiliary Supply Specifications

Auxiliary Supply	40V to 300V AC / DC
Supply Frequency	50 / 60Hz
Input Burden	0.5 VA @ 5A AC
Power Consumption	5VA max

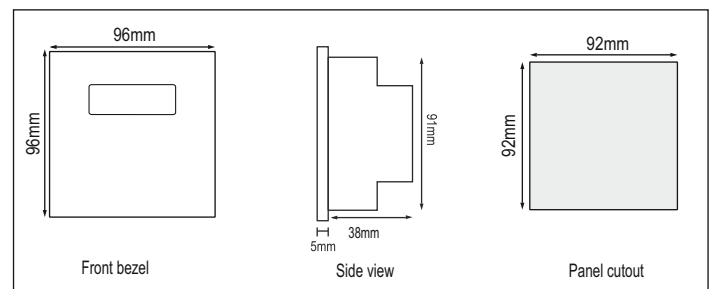
### Environmental Specifications

Operating Temperature	-10°C to +55°C (14°F to 131°F)
Storage Temperature	-20°C to +75°C (-4°F to 167°F)
Humidity (non-condensing)	Up to 85% non-condensing
Pollution degree	2
Altitude	Upto 2000 meters
Measurement Category	CAT III

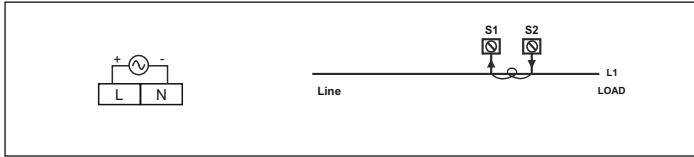
### Mechanical Specifications

Mounting	Panel mount
Bezel size	96 mm x 96 mm
Overall depth	38 mm
Weight	165 gms (MA32-3-G-40/300V) 150 gms (MA32-1-G-40/300V)
Torque at terminals	0.68 N-m to 0.79 N-m
Wire Gauge at terminals	20 to 14 AWG; 75°C
Mounting position	Vertical

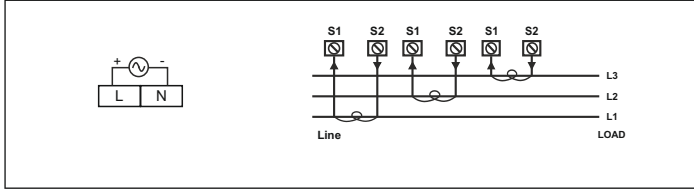
### Dimensions



Terminal Connections



MA32-1-G



MA32-3-G

	Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992
	Cable Size (mm <sup>2</sup> ): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79

Compliance

Applicable EMI / EMC Standards		
Product Standard : IEC 61326-1		
Category		Standards Compliance
ESD Immunity	IEC 61000-4-2	Level IV (Air discharge : 8kV), (Contact Discharge : -4kV)
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 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	<b>Dips</b> : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 1) cycles 50Hz / 12 cycles 60Hz (Criteria C) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C) <b>Interruptions</b> : 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
MA32-3-G-40/300V-CE	40-300V AC	CE
MA32-1-G-40/300V-CE	40-300V AC	CE



96 x 96mm

**Features :**

- Class 0.5 accuracy
- True RMS current measurement
- Available in LED display
- CT programmable up to 4000A
- CE & RoHS certified

Certifications : CE 

**Display specifications**

Display	7 segment LED Display
Digits	4
Digit height	0.56" (14.2mm)
Display range	0 - 4960A
Resolution	0.001, 0.01, 0.1, 1A (Depending upon CT primary)

**Input specifications**

Electrical connection	1 Ø-2 wire
Input type	AC
Input current range	50mA - 5A AC
Continuous max. input current	120% of rated current
Accuracy	±0.5% of F.S
Overrange indication	>6.2A
Frequency range	50 / 60Hz

**Electrical specification**

Installation category	III
High voltage test	2kV AC, 50Hz
IP protection	IP51 Front only
Sampling rate	3 samples / second
Dielectric withstand voltage	2kV AC between auxiliary supply & measuring input
Rated impulse withstand voltage	3.5kV (1.2/50µS)

**Auxiliary supply specifications**

Auxiliary supply	AC: 240V AC ±20%, (50 / 60Hz) 110V AC ±20% , (60Hz)
Supply frequency	50 / 60Hz
Input burden	0.5 VA @ 5AAC
Power consumption	5VA max @ 240V AC

**Settable parameters**

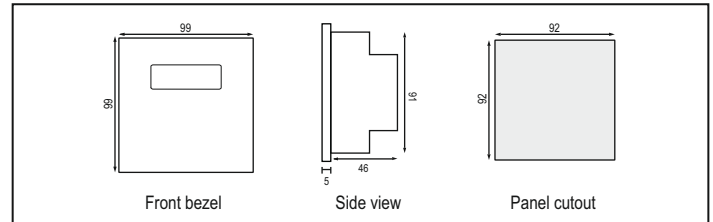
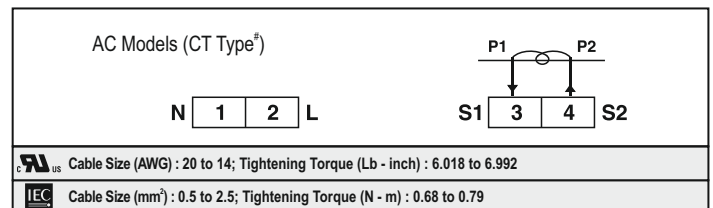
CT Primary setting	5, 10, 20, 30, 40, 50, 60, 75, 80, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1600, 2000, 2500, 3000, 4000 (Via tact switch)
CT Secondary setting	5A fixed

**Environmental specifications**

Operating temperature	-10°C to +55°C (14°F to 131°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	96 mm x 96 mm
Overall depth	46 mm
Weight	180 gms

**Dimensions (All are in mm)****Terminal connections**

## 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	<b>Dips</b> : 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) <b>Interruptions</b> : 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
MA302	240V AC	CE
MA302-CE	240V AC	CE
MA302-CE	240V AC	CE
MA302-110V	110V AC	CE
MA302-110V-CU	110V AC	CE 



96 x 96mm

**Features:**

- 4 Digit, 7 segment LED Display
- True RMS Measurement
- For 3Ø-4 wire , 3Ø- 3 wire, 1Ø- 2 wire Electrical Network
- K LED for kilo indication

Certifications: **CE**

**Display Specifications**

Type of Display	7 segment LED Display
Digit	4
Display Height	0,56" (14.2 mm)

**Input Specifications**

Electrical Connection	3Ø- 4 wire, 3Ø- 3 wire, 1Ø- 2 wire
Input Type	AC
Input Current Range	50mA - 6A
Continuous Max. Input Rating	6.2A
Overrange Indication	"Or" for input > 6.2A
Resolution	Auto Resolution (Depend upon CT ratio)
Accuracy	±0.5% of F.S
Display Update Time	1 Sec

**Settable Parameters**

CT Primary	1 - 999,0kA
CT Secondary	1 or 5A

**Auxiliary Supply Specifications**

Auxiliary Supply	230V AC (±20%), 50/60 Hz
Power Consumption	<5 VA max.

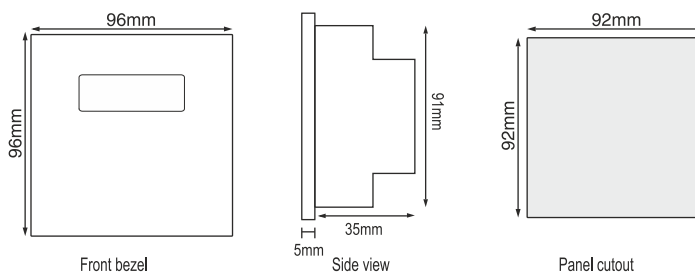
**Environmental Specifications**

Temperature	Operating: 0°C to 50°C Storage: -25°C to 70°C
Humidity (non-condensing)	0-90% (non-condensing)

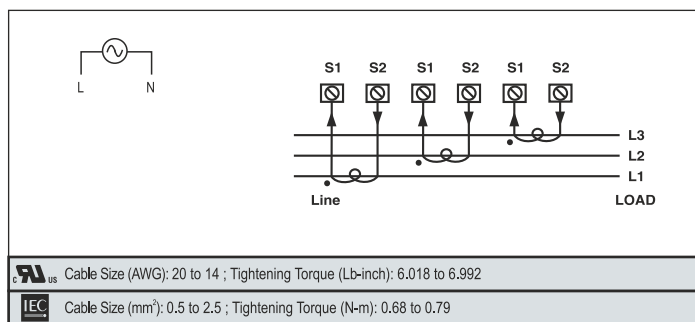
**Mechanical Specifications**

Mounting	Panel mount
Weight	200 gms

**Dimensions**



**Terminal Connections**



**Ordering Information**

Order Code	Supply Voltage	Certification
	230V AC	
MA335-230V AC	■	<b>CE</b>
MA335-230V AC-CE	■	<b>CE</b>

## 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	<b>Dips</b> : 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) <b>Interruptions</b> : 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)





48 x 48mm

**Features :**

- 1Ø True RMS measurement
- 4 Digit 7 segment LCD display
- Analog style bargraph indication
- CT primary programmable up to 5000A
- CE & RoHS certified

Certifications :

**Display specification**

Display	7 segment LCD
Digit	4
Digit Height	0.56" (14.2mm)
Display update time	1 sec
Resolution	0.001, 0.01, 0.1, 1A (Depending upon CT Primary Setting)

**Input specifications**

Electrical connection	1Ø - 2wire
Input type	AC
Nominal input current ranges	50mA - 6A
Max continuous input current	6.2A
Accuracy	±0.5%

**Electrical specification**

Nominal input burden	<0.2 VA approx. per phase
Overload withstand	20x rated value for 1 second, Repeated 5 times at 5 min intervals
Installation category	III
High voltage test	3.3 kV AC, 50Hz for 1 minute
Warm up time	Minimum 3 minute
IP protection	IP 50

**Auxiliary supply specification**

Auxiliary supply	240V AC, ±20%
Frequency range	50 to 60Hz
Power Consumption	12VA max

**Settable parameters**

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.
CT Secondary	5A Fixed

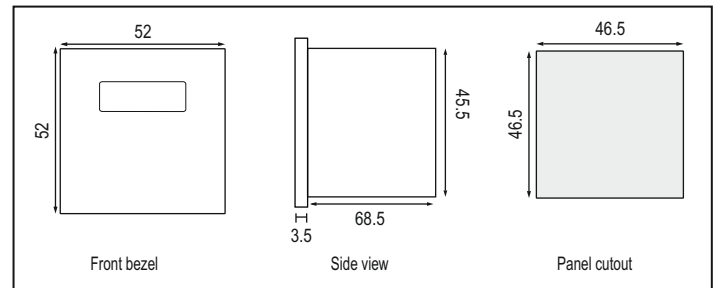
**Environmental specifications**

Operating temperature	-10°C to +55°C
Storage temperature	-25°C to +70°C
Relative humidity	95% RH
Pollution degree	2

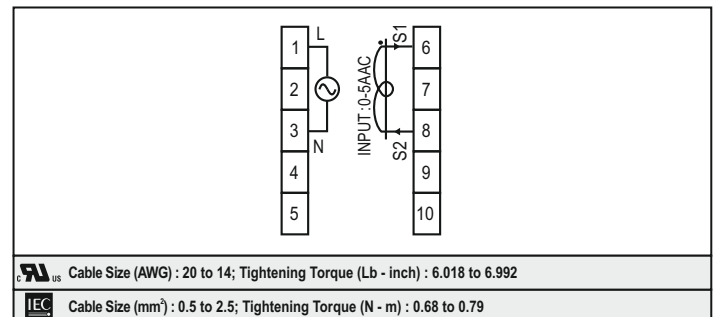
**Mechanical specification**

Mounting	Panel Mount
Bezel size	48 mm x 48 mm
Overall depth	70mm
Weight	113gms
Certification	CE, RoHS

**Dimensions (All are in mm)**



**Terminal connections**



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

Cable Size (mm<sup>2</sup>) : 0.5 to 2.5; Tightening Torque (N - m) : 0.68 to 0.79

## Compliance

Applicable EMI / EMC Standards		
Product Standard : IEC 61326-1		
Category		
ESD Immunity	IEC 61000-4-2	± 2 kV common mode, ± 1 kV differential mode
Surge Immunity	IEC 61000-4-5	Level III, 80 to 1000MHz Level II, 1GHz to 2GHz Level I, 2GHz to 2.7GHz
Radiated Susceptibility	IEC 61000-4-3	Level II
Conducted Susceptibility	IEC 61000-4-6	Dips: 0% residual voltage/1 cycle IEC 61000-4-11 (Crit B.), 40% residual voltage/10 cycles 50 Hz / 12 cycles 60 Hz (Crit C) 70% residual voltage / 25 cycles 50 Hz / 30 cycles 60 Hz (Crit C) Interruptions: 0% residual voltage / 250 cycles 50 Hz / 300 cycles 60 Hz (Crit C)"
Voltage Dips and Interruption	IEC 61000-4-11	
Conducted Emissions	CISPR-11 & IEC 61000-6-3	
Radiated Emissions CISPR-11	CISPR-11	
Electrical Fast Transient	IEC 61000-4-4	Level 3

## Ordering Information

Product Code	Supply Voltage	Certification
MA501	240V AC, ±20%	- - -
MA501-230V-CE	240V AC, ±20%	CE

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