



| Auxiliary supply Us                    |               |                                          |                                                                               |
|----------------------------------------|---------------|------------------------------------------|-------------------------------------------------------------------------------|
| Auxiliary rated supply voltage AC      | VAC           | 100...440                                |                                                                               |
| Auxiliary rated supply voltage DC      | VDC           | 120...250                                |                                                                               |
| Auxiliary operating voltage range      |               |                                          |                                                                               |
| AC                                     | min           | VAC                                      | 90                                                                            |
|                                        | Max           | VAC                                      | 484                                                                           |
| DC                                     | min           | VDC                                      | 93.5                                                                          |
|                                        | Max           | VDC                                      | 300                                                                           |
| Operational frequency                  | min           | Hz                                       | 45                                                                            |
|                                        | max           | Hz                                       | 66                                                                            |
| Power consumption                      | Max           | VA                                       | 9.5                                                                           |
| Power dissipation Max                  | W             | 3.5                                      |                                                                               |
| Measuring voltage inputs               |               |                                          |                                                                               |
| Rated voltage (Ue)                     | phase-phase   | VAC                                      | 600                                                                           |
|                                        | phase-neutral | VAC                                      | 300                                                                           |
| Operating voltage range                | phase-phase   | VAC                                      | 50...720                                                                      |
|                                        | phase-neutral | VAC                                      | 30...360                                                                      |
| Voltage inputs operational frequency   | min           | Hz                                       | 45                                                                            |
|                                        | max           | Hz                                       | 66                                                                            |
| Voltage inputs measurement method      |               |                                          | True RMS                                                                      |
| Connection method                      |               |                                          | Single. two. three-phase with or without neutral. balanced three-phase system |
| Current inputs                         |               |                                          |                                                                               |
| Rated current (Ie)                     | A             | 1A/5A                                    |                                                                               |
| Current reading through Rogowski coils | A             | 20...6300                                |                                                                               |
| Measurement range                      |               | 0.025...6A                               |                                                                               |
| Measurement method                     |               | TRMS                                     |                                                                               |
| Overload capacity                      |               | +20% Ie by external CT with 5A secondary |                                                                               |
| Overload peak                          | A             | 50A for 1s                               |                                                                               |
| Current                                |               |                                          |                                                                               |
| IEC maximum (Imax)                     | A             | 100                                      |                                                                               |
| Accuracy                               |               |                                          |                                                                               |
|                                        | VLN voltage   |                                          | ±0.5%                                                                         |
|                                        | VLL voltage   |                                          | ±0.5%                                                                         |

FLUSH-MOUNT LCD MULTIMETER, EXPANDABLE, BACKLIGHT ICON LCD DISPLAY, 72X46MM/2.8X1.8", AUXILIARY SUPPLY 100-440VAC/120-250VDC, FRONT OPTICAL PORT AND RS485 PORTS. CURRENT READING THROUGH 3 ROGOWSKI COILS INCLUDED, MAX CURRENT 100A, Ø50MM AND CABLE LENGTH 2M

|                 |                           |
|-----------------|---------------------------|
| Current         | ±0.5%                     |
| Frequency       | ±0.05%                    |
| Active power    | ±0.5%                     |
| Active energy   | Class 1 (IEC/EN 62053-21) |
| Reactive energy | Class 2 (IEC/EN 62053-23) |

#### Insulations

|                                       |    |     |
|---------------------------------------|----|-----|
| Rated insulation voltage Ui IEC/EN    | V  | 600 |
| Rated impulse withstand voltage Uimp  | kV | 9.5 |
| Operating frequency withstand voltage | kV | 5.2 |

#### Functions

|                                 |            |
|---------------------------------|------------|
| Harmonic analysis               | 15th order |
| PLC logic                       | No         |
| Type of communication port      | RS485      |
| Ethernet-RS485 gateway function | No         |

#### Mechanical features

|                         |  |     |                 |           |
|-------------------------|--|-----|-----------------|-----------|
| Housing type            |  |     |                 | Polyamide |
| Terminals type          |  |     |                 | Removable |
| Conductor cross section |  |     |                 |           |
|                         |  | min | mm <sup>2</sup> | 0.2       |
|                         |  | Max | mm <sup>2</sup> | 2.5       |
|                         |  | min | AWG             | 24        |
|                         |  | Max | AWG             | 12        |

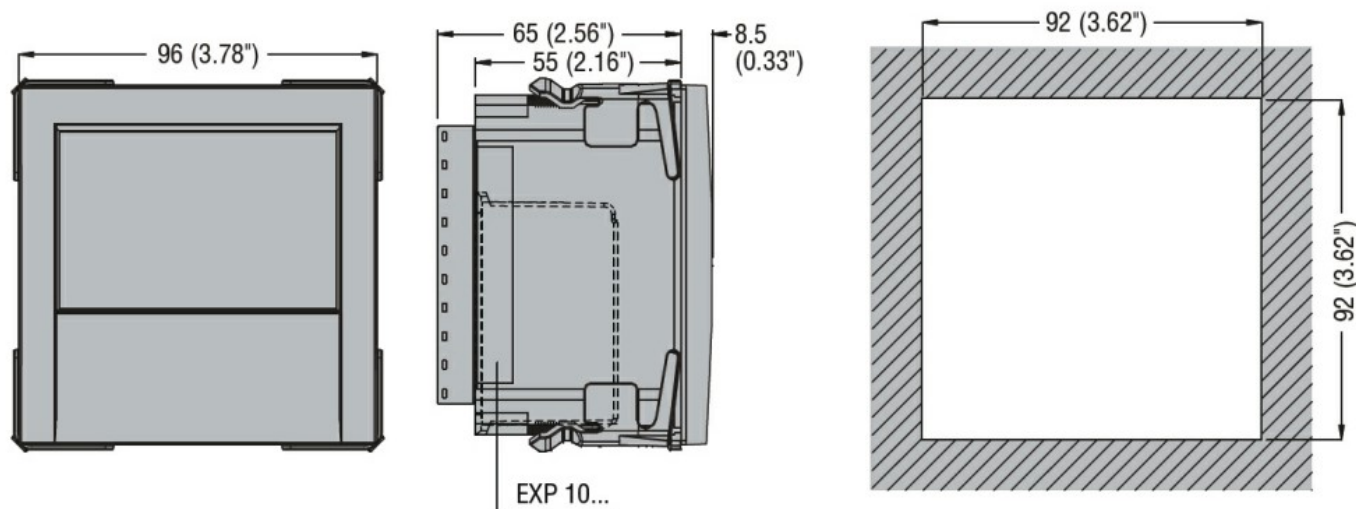
|                         |      |                |
|-------------------------|------|----------------|
| Tightening torque (Max) |      |                |
|                         | Nm   | 0.5            |
|                         | lbin | 4.5            |
| Fixing                  |      | Flush-mounting |
| Weight                  | g    | 350            |

#### Ambient conditions

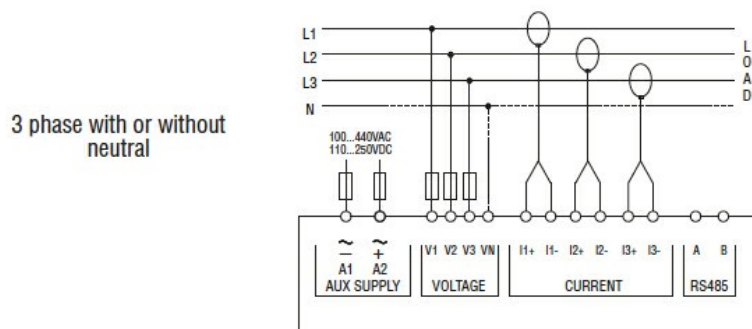
|                          |     |    |                                   |
|--------------------------|-----|----|-----------------------------------|
| Temperature              |     |    |                                   |
| Operating temperature    |     |    |                                   |
|                          | min | °C | -20                               |
|                          | max | °C | +60                               |
| Storage temperature      |     |    |                                   |
|                          | min | °C | -30                               |
|                          | max | °C | +80                               |
| Relative humidity        |     | %  | <90                               |
| Maximum Pollution degree |     |    | 2                                 |
| Protection degree        |     |    | IP54 on front -<br>IP20 terminals |

#### Dimensions

FLUSH-MOUNT LCD MULTIMETER, EXPANDABLE, BACKLIGHT ICON LCD DISPLAY, 72X46MM/2.8X1.8", AUXILIARY SUPPLY 100-440VAC/120-250VDC, FRONT OPTICAL PORT AND RS485 PORTS. CURRENT READING THROUGH 3 ROGOWSKI COILS INCLUDED, MAX CURRENT 100A, Ø50MM AND CABLE LENGHT 2M



## Wiring diagrams



## Certifications and compliance

### Compliance

IEC/EN 61000-6-2  
IEC/EN 61000-6-3  
IEC/EN 61010-1  
IEC/EN 61010-2-030

### Certificates

EAC

## ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument