**Lovato electric**
ENERGY AND AUTOMATION

POWER ANALYZER WITH WIDESCREEN COLOUR LCD. AUXILIARY SUPPLY 12...48VDC. EXPANDABLE WITH 3 EXP... MODULES, BUILT-IN RS485 AND ETHERNET PORTS, DATA MEMORY FOR LOGGING, COMPATIBLE WITH EASY BRANCH POWER MONITORING SYSTEM

| | | | |
|---|---|---|---|
| Product designation | | | Panel m. color glcd mult., RS485 + ETH |
| Product type designation | | | DMG9000D048 |
| Type | | | Three-phase + neutral + earth |
| **Auxiliary supply Us** | | | |
| Auxiliary rated supply voltage DC | | VDC | 12…48 |
| Auxiliary operating voltage range DC | | | |
| | min | VDC | 12 |
| | Max | VDC | 48 |
| Power consumption | | | |
| | Max | VA | 15 |
| Power dissipation Max | | W | 6 |
| **Measuring voltage inputs** | | | |
| Rated voltage (Ue) | | | |
| | phase-phase | VAC | 600 |
| | phase-neutral | VAC | 347 |
| Operating voltage range | | | |
| | phase-phase | VAC | 40…830 |
| | phase-neutral | VAC | 5...480 |
| Voltage inputs operational frequency | | | |
| | min | Hz | 45 and 360 |
| | max | Hz | 66 and 440 |
| Voltage inputs measurement method | | | True RMS |
| Connection method | | | Single. Two. Three-phase with or without neutral. Balanced three-phase system. Three-phase ARON. |
| **Current inputs** | | | |
| Rated current (Ie) | | A | 1A/5A |
| Measurement range | | | 0.004…6 |
| Measurement method | | | TRMS |
| Overload capacity | | | +20% Ie by external CT with 5A secondary |
| Overload peak | | A | 120A for 0.5s |
| **Accuracy** | | | |
| | VLN voltage | | Class 0.2 (IEC/EN 61557-12), V:50-480V~ |

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| | | |
|---|---|---|
| VLL voltage | | Class 0.2 (IEC/EN 61557-12), V:87-830V~ |
| Current | | Class 0.2 (IEC/EN 61557-12), In:5A~ |
| Frequency | | Class 0.02 (IEC/EN 61557-12) |
| Active power | | Class 0.5 (IEC/EN 61557-12) |
| Reactive power | | Class 1 (IEC/EN 61557-12) |
| Active energy | | Class 0.5s (IEC/EN 62053-22) |
| Reactive energy | | Class 1 (IEC/EN 62053-24) |
| THD | | Class 5 (IEC/EN 61557-12) |
| 2nd 15th order harmonics | | Class 5 (IEC/EN 61557-12) |

| Insulations | | |
|---|---|---|
| Rated insulation voltage Ui IEC/EN | V | 600 |
| Rated impulse withstand voltage Uimp | kV | 9.6 |
| Operating frequency withstand voltage | kV | 5.4 |

| Functions | |
|---|---|
| Harmonic analysis | 63rd order |
| PLC logic | Yes |
| Type of communication port | RS485/Ethernet |
| Ethernet-RS485 gateway function | Yes |
| Data logging memory | Yes |
| Neutral/earth current and voltage monitoring | Yes |
| Statistics of network quality according to EN50160 | Yes |
| EASY BRANCH support | Yes |

| Mechanical features | | | |
|---|---|---|---|
| Housing type | | | Xantar RAL 7035 |
| Terminals type | | | Removable |
| Conductor cross section | | | |
| | min | mm² | 0.2 |
| | Max | mm² | 2.5 |
| | min | AWG | 24 |
| | Max | AWG | 12 |
| Tightening torque (Max) | | | |
| | | Nm | 0.5 |
| | | lbin | 4.5 |
| Fixing | | | Flush-mounting |
| Weight | | g | 439 |

| Ambient conditions | | | |
|---|---|---|---|
| Temperature | | | |
| Operating temperature | | | |
| | min | °C | -20 |
| | max | °C | +60 |
| Storage temperature | | | |

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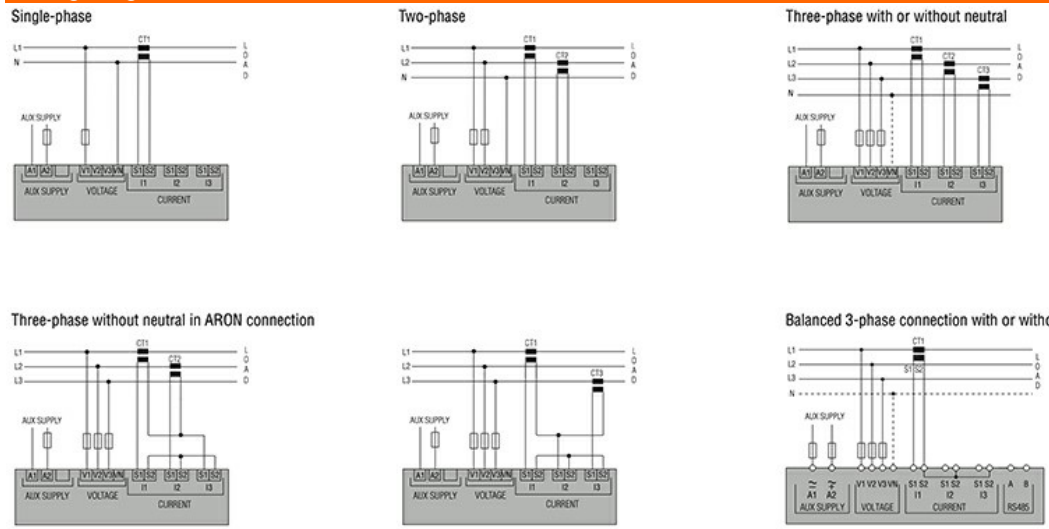
| | min | °C | -30 |
|---|---|---|---|
| | max | °C | +80 |
| Relative humidity | | % | <80 |
| Maximum Pollution degree | | | 2 |
| Protection degree | | | IP65 |

## Dimensions
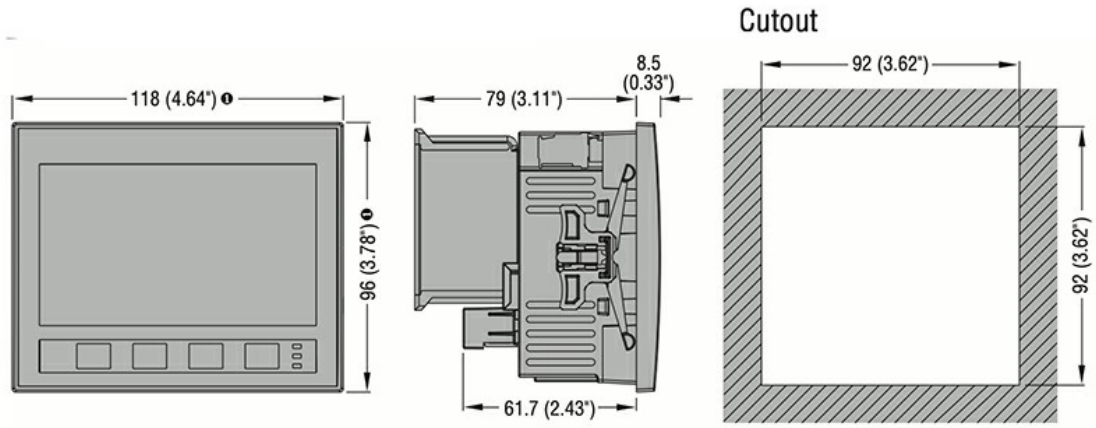


**❶** Dimensions with gasket: 122x100mm/4.80x3.94".

## Wiring diagrams



| CODE | AUX SUPPLY |
|---|---|
| DMG100-110-200-210-300 | 100...240VAC 110...250VDC |
| DMG6... | 100...440VAC 110...250VDC |
| DMG7000-7500-8000-9000 | 100...240VAC 110...250VDC |

## Certifications and compliance

### Compliance

| | |
|---|---|
| | CSA 22.2 No 61010-2-030 |
| | CSA C22.2 No 61010-1 |
| | IEC/EN/BS 61010-1 |
| | UL61010-1 |
| | UL61010-2-030 |

### Certificates

| | |
|---|---|
| | CE |
| | UKCA |

## ETIM classification

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EC002301 - Multifunction measuring instrument

ETIM 8.0