

ACL30

Scalable RLC AC load from 0 to 30 kVA

Product Features

- SCADA and communication bus for remote operability.
- Maximum. Line voltage allowed 480 Va.c.
- Multiple a.c. load steps through remote or manual selection.
- selection of the operation mode: manual or automated
- Main switch and emergency button.
- External connection boxes for handing the grid-connection to island control

Applications

- Smart and Microgrids operating in a.c.
- Resistive a.c. load for automated test to validation and certification purposes.



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Electrical Characteristics

- Rated Power: 30kW
- Vline max.: 480 Vrms
- Power Factor at Rated Power: 1, ± 0.97 , ± 0.894 , ± 0.8
- Supply Voltage : 230Vrms
- Measurements: Schneider Electric PM700

Mechanical Enclosure

- Steel enclosure
- Installed in a rack with wheels
- Forced ventilation produced by fans
- Dimensions & Weight:
1100W x 850D x 1930H mm. 1300kg

Communication

- Controlled by Modicon M221 PLC of Schneider Electric
- Communication protocol: Ethernet (Modbus TCP), Serial (Modbus RTU, Modbus ASCII, ASCII)
- Interface: Schneider Electric Magelis (HMISCU6A5)

Load configuration

The load can be configured in two ways through its interface:

- Selecting the active and reactive power consumed by the load.
- Selecting the resistance, inductance and capacitance of the load.

Power consumption configuration

Active power	From 0kW to 30kW with 1kW step
Reactive power	From -22.5kVar to 22.5kVar with 7.5kVar step



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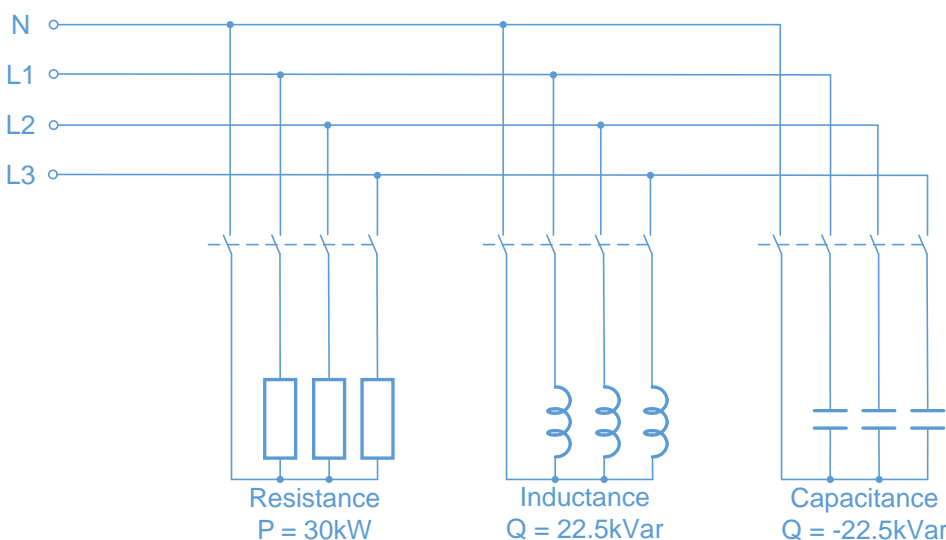
Load measurements

The load incorporates a power analyzer which offers all the measurement capabilities required to monitor the electrical parameters of the load:

- Phase Current
- Line Voltage and Phase Voltage
- Active, Reactive and Apparent power
- Energy consumption
- Power Factor
- Frequency
- Total Harmonic Distortion : voltage and current

Examples and guides

- Schematics and User Guide
- SCADA integration manual
- Configuration files and examples for Vijeo Citect



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