

ACL10

Scalable resistive AC load from 0 to 10 kW

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: 10kW
- Vline max.: 480 Vrms
- Supply Voltage : 230Vrms

Switch Steps @ 400 Va.c.

- Switch 1: 1200 W (132 Ω)
- Switch 2: 2100 W (75 Ω)
- Switch 3: 3000 W (53 Ω)
- Switch 4: 4500W (35 Ω)

Mechanical Enclosure

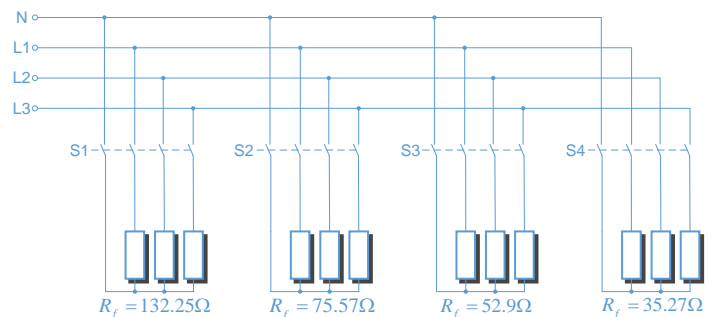
- Steel enclosure
- Installed in a rack with wheels
- Forced ventilation produced by fans
- Dimensions & Weight:
600W x 1220D x 710H mm, 125.5kg

Communication

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

Configuration Steps

S1	S2	S3	S4	Rf (Ω)	Power at 230 Vac	Power at 120 Vac
ON	OFF	OFF	OFF	132.25	1.2 kW	0.33 kW
OFF	ON	OFF	OFF	75.57	2.1 kW	0.57 kW
OFF	OFF	ON	OFF	52.9	3 kW	0.82 kW
ON	ON	OFF	OFF	48.09	3.3 kW	0.9 kW
ON	OFF	ON	OFF	37.78	4.2 kW	1.14 kW
OFF	OFF	OFF	ON	35.27	4.5 kW	1.22 kW
OFF	ON	ON	OFF	31.12	5.1 kW	1.39 kW
ON	OFF	OFF	ON	27.84	5.7 kW	1.55 kW
ON	ON	ON	OFF	25.19	6.3 kW	1.71 kW
OFF	ON	OFF	ON	24.05	6.6 kW	1.8 kW
OFF	OFF	ON	ON	21.16	7.5 kW	2.04 kW
ON	ON	OFF	ON	20.35	7.8 kW	2.12 kW
ON	OFF	ON	ON	18.24	8.7 kW	2.37 kW
OFF	ON	ON	ON	16.53	9.6 kW	2.61 kW
ON	ON	ON	ON	14.69	10.8 kW	2.94 kW



DCL10

Scalable resistive DC load from 0 to 10 kW

Examples and guides

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



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