

# GERMAREL LOAD BANKS

## Neutral Grounding Resistors



www.germarel.de  
sales@germarel.de



### Neutral Grounding Resistor

Germarel ground resistors for neutral are produced from 100kW to 600kW. On very strong main structure, the roller series, produced from independent 1-2-3 sections, guarantees long life without interruption with independent cooling between loads. You can choose from 5, L and XL models from the Model selection table according to the power and step loads that you need.



#### Enclosure Specifications

- Strong, Independent Main Body.
- Silicone based, Electrostatic Powder Painted Enclosure
- Independent and Separated Section Resistance Blocks
- Independent and Separated Cooling Fans
- Snow Load, Strong Rain Protection Roof (Optional)
- Indoor and Outdoor Applications

#### Control and Power Room Specifications

- All lockable two section, 3 doors panels.
- After Connection, lockable Cable Connection Section For operator security,
- Wide Width, Smart Bus-Bar for Easy Cable Connection
- IP54 Protection level Control Section (IPSS Available for Custom Series)
- Easy Use Operation Panel
- Wide screen, All Electrical Values shown, Power Analyser
- Easy Fault Tracking with Alarm Panel (Optional)



#### Resistance Unit Specifications

- All AISI304 Stainless Steel GRID Resistors
- RESIST OHM CR Alloy Twist Wounded Resistors
- Design that can work at very high ambient temperatures.



LOADBANK

# Germarel Grounding Resistor

## General Specifications and Options

### Connection and Equipment

All control equipment with Allen Bradley branded products; Also in Switchgear such as contactor, automatic circuit breaker Schneider / Siemens branded products are used.

### Specifications

Max Voltage Upto 415VAC

Control Manual, Automatic, Remote, Wireless See feature selection table

Cable Termination Panel Mounted Copper Busbar. 11, L2, I3, N & Earth. 4 Wire Connection

Cooling 3 Phase or IPhase / Supply from internal or external 230V - 400V

Element Type Stainless Steel Grid or (rNI, CrAL TwistWound® Elements

Protection Designed for outdoor operation. Electrical Control side IP54 - Resistance

Construction Galvanised Steel Doors, Steel independent main structure

Finish Epoxy based, electrostatic powder painted

Operation Temperature -5 - +50 OegC - (optional '-40.)

Movement Wheels, lifting Points

### Electrical Parameter Logging RS485 Interface & Software.

Load Tests Performed with a load bank can be used to determine whether all electrical parameters (SCADA etc.) to be displayed simultaneously and to keep their records.

- All electrical parameters are monitored simultaneously on the computer.
- Electrical parameters can be recorded simultaneously.
- With Internet Connection, all data can be viewed simultaneously from the internet.
- The Modbus Data Map is supplied with the option.
- It is easily connected with 2 wired RS485 - MODBUS connection ..
- RS485 | USB Cable (optional)
- It includes computer monitoring and recording program ..

### OPTIONS

#### Manual On/Off

\*The opening and closing of the load steps is done by removing and opening the circuit breakers by the operator. The operator must turn off the circuit breaker switch to disable the loads



#### Toggle Switch Control (Contacteur)

The opening and closing of the load steps is done by switching the Toggle light Switches  
The operator must turn off the Toggle light Switch Off position to disable the loads



#### Bus Energised Light

Bus Energised light - When the input bus-bars of the load bank are energized, warning lamp will be light



#### System Ready Light

System Active light When the fans start and system ready, Green lamp will be light



#### Supply Selector Switch (Bus-Terminal)

It allows the supply voltage of the load bank to be selected from the internal or external source.



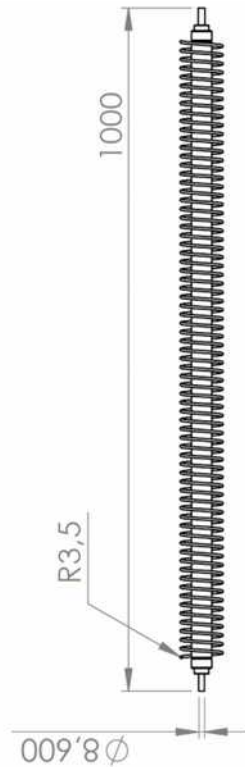
#### Local/Remote Switch

This Button allows the load to be controlled via the device or remotely by RS485 Controller  
;C 'Itacts or Wireless Controller.



# Germarel Neutral Grounding Rezistor

## Technical Photo for Neutral Grounding Rezistor



# Germarel Neutral Grounding Resistor

## Technical Photo for Neutral Grounding Resistor

### NEUTRAL GROUNDING RESISTOR

40Ohm 200A 10Sec.

