

## SIM-Q - Selectable Insulation Monitor

• **Description-Application:** The SIM-Q is used for supervision of the insulation resistance between an insulated voltage distribution network (IT network) and earth cable/safety cable.

The SIM-Q LF is a low frequency version of the SIM-Q specifically designed for supervision of the insulation resistance between an insulated voltage distribution network (IT network) and earth cable/safety cable in installations with frequency converters working at frequencies below 20Hz. The SIM-Q can be used for marine installations and other types of insulated voltage networks.



- **Size (mm):** 96x96
- **Selectable modes:** Monitoring, fault finding, test.
- **Protection:** IP52
- **Relay output:** Built-in relay can either be selected as NE or ND. Alarm setpoint adjustable from the rear
- **Input:** Meas. voltage:  $\pm 28\text{V DC } \pm 5\%$ , Mains voltage: Max. 690V AC +20% continuously. SIM-Q: 20 Hz...500 Hz, SIM-Q LF: 5 Hz...500 H
- **Mains voltage/leakage cap.:** Selectable for either max. 50 $\mu\text{F}$  or max. 500 $\mu\text{F}$
- **Auxillary supply:** 100...110...127 or 220...230...240 or 400...450...480V AC  $\pm 20\%$  40..70 Hz (< 4 VA) 24V DC  $\pm 25\%$  (appr. 4 W)
- **Accuracy class:** 1..0 Mohm scale  $\pm 5\%$  of scale length, 10..0 Mohm scale  $\pm 2\%$  of scale length

## AAL-111Q96 - Insulation monitor

• **Description-Application:** The AAL-111Q96 is used for supervision of the insulation resistance between an insulated low-voltage distribution network (IT network) and earth cable/safety cable. The instrument is applicable in conjunction with single-phase networks and 3-phase networks with/without neutral for voltages up to 440V AC. The AAL-111Q96 is used for marine installations and other types of insulated low-voltage networks. An AC or DC auxiliary voltage is required for the instrument.



- **Size (mm):** 96x96
- **Selectable modes:** Monitoring, fault finding, test.
- **Protection:** IP52
- **Relay output:** Built-in relay can either be selected as NE or ND. Alarm setpoint adjustable from the rear
- **Input:** Meas. voltage:  $\pm 28\text{V DC } \pm 5\%$ , Mains voltage: Max. 690V AC +20% continuously. SIM-Q: 20 Hz...500 Hz, SIM-Q LF: 5 Hz...500 H
- **Mains voltage/leakage cap.:** Selectable for either max. 50 $\mu\text{F}$  or max. 500 $\mu\text{F}$
- **Auxillary supply:** 100...110...127 or 220...230...240 or 400...450...480V AC  $\pm 20\%$  40..70 Hz (< 4 VA) 24V DC  $\pm 25\%$  (appr. 4 W)
- **Accuracy class:** 1..0 Mohm scale  $\pm 5\%$  of scale length, 10..0 Mohm scale  $\pm 2\%$  of scale length

## ADL-111Q96 - Insulation monitor

- **Description-Application:** The ADL-111Q96 is used for supervision of the insulation resistance between an insulated DC voltage distribution network and earth cable/safety cable. The ADL can be used for marine installations and other types of insulated voltage networks, e.g. DC manoeuvre voltages of transformer stations.



- **Size (mm):** 96x96
- **Protection:** IP52
- **Relay output:** Built-in relay can either be selected as NE or ND. Alarm setpoint adjustable from the rear
- **Input:** Meas. voltage:  $\pm 12\text{V DC} \pm 5\%$  (24 V),  $\pm 28\text{V DC} \pm 5\%$  (110, 220 V) - Mains voltage: 24V DC, 110V DC, 220V DC +30% -25%
- **Mains voltage/leakage cap.:** Selectable for either max. 1 $\mu\text{F}$  or max. 20 $\mu\text{F}$
- **Auxillary supply:** 24V DC, 110V DC, 220V DC +30% -25%