

Устройства контроля ИЗОЛЯЦИИ

Технические характеристики

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Insulation monitor RN 5897/321

- Width: 52,5 mm
- Classification: For DC charging stations
- Response value: 1 - 500 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 230, AC 0 - 690 (Coupling device), DC 0 - 230, DC 0 - 1000 (Coupling device) V
- Auxiliary voltage: AC/DC
- Bus interface: Modbus RTU



Insulation monitor RN 5897/021

- Width: 52,5 mm
- Classification: For DC charging stations
- Response value: 1 - 500 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 230, AC 0 - 690 (Coupling device), DC 0 - 230, DC 0 - 1000 (Coupling device) V
- Auxiliary voltage: AC/DC
- Bus interface: Modbus RTU



Insulation monitor RL 5889

- Width: 35 mm
- Response value: 1 - 300 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 240, DC 0 - 240 V
- Auxiliary voltage: DC, AC/DC



Insulation monitor RN 5897/011

- Width: 52,5 mm
- Response value: 1 - 2000 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 230, AC 0 - 690 (Coupling device), DC 0 - 230, DC 0 - 1000 (Coupling device) V
- Auxiliary voltage: AC/DC
- Bus interface: Modbus RTU



Insulation monitor RL 5881

- Width: 35 mm
- Response value: 1 - 300 kΩ
- IMD type: DC
- Nominal voltage IT system: DC 0 - 240 V
- Auxiliary voltage: Without, DC, AC/DC



Insulation monitor RN 5897/240

- Width: 52,5 mm
- Classification: For DC charging stations
- Response value: 1 - 500 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 690 (Coupling device), DC 0 - 1000 (Coupling device) V
- Auxiliary voltage: DC, AC/DC



Insulation monitor LK 5894

- Width: 90 mm
- Response value: 1 - 250 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 690, DC 0 - 690 V
- Auxiliary voltage: DC



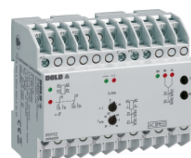
Insulation monitor LK 5895

- Width: 90 mm
- Classification: For photovoltaic systems
- Response value: 1 - 250 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 1000, DC 0 - 1000 V
- Auxiliary voltage: DC



Insulation monitor RN 5897/010

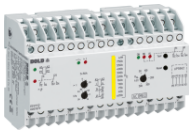
- Width: 52,5 mm
- Response value: 1 - 250 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 230, AC 0 - 690 (Coupling device), DC 0 - 230, DC 0 - 1000 (Coupling device) V
- Auxiliary voltage: DC, AC/DC



IT Line monitor IR 9112/710

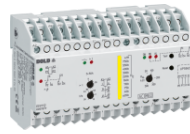
- Width: 105 mm
- Classification: For medically used rooms
- Response value: 50 kΩ
- IMD type: AC
- Nominal voltage IT system: AC 0 - 300 V
- Auxiliary voltage: AC

IT Line monitor IS 9112/711



- Width: 140 mm
- Classification: For medically used rooms
- Response value: 50 - 500 kΩ
- IMD type: AC
- Nominal voltage IT system: AC 0 - 300 V
- Auxiliary voltage: AC

IT Line monitor IS 9112/712



- Width: 140 mm
- Classification: For medically used rooms
- Response value: 50 - 500 kΩ
- IMD type: AC
- Nominal voltage IT system: AC 0 - 300 V
- Auxiliary voltage: AC

Insulation monitor RN 5897/020



- Width: 52,5 mm
- Classification: For DC charging stations
- Response value: 1 - 100 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 230, AC 0 - 690 (Coupling device), DC 0 - 230, DC 0 - 1000 (Coupling device) V
- Auxiliary voltage: DC, AC/DC

Insulation monitor LK 5896



- Width: 90 mm
- Classification: For photovoltaic systems
- Response value: 1 - 250 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 1000, DC 0 - 1000 V
- Auxiliary voltage: DC

Insulation monitor RN 5897/300



- Width: 52,5 mm
- Classification: For mobile power generators
- Response value: 10 - 250 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 230, DC 0 - 230 V
- Auxiliary voltage: DC, AC/DC

Insulation monitor MH 5880



- Width: 45 mm
- Response value: 5 - 100 kΩ
- IMD type: AC
- Nominal voltage IT system: AC 0 - 500 V
- Auxiliary voltage: AC, DC

Insulation monitor MK 5880N



- Width: 22,5 mm
- Response value: 5 - 100 kΩ
- IMD type: AC
- Nominal voltage IT system: AC 0 - 500 V
- Auxiliary voltage: AC, DC

Insulation monitor UH 5892



- Width: 45 mm
- Response value: 50 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 400, DC 0 - 600 V
- Auxiliary voltage: AC/DC

Insulation monitor LK 5896/900



- Width: 90 mm
- Response value: 1 - 250 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 1000, DC 0 - 1000 V
- Auxiliary voltage: DC

Insulation monitor RN 5897/320



- Width: 52,5 mm
- Classification: For DC charging stations
- Response value: 1 - 100 kΩ
- IMD type: AC, DC, AC/DC
- Nominal voltage IT system: AC 0 - 690 (Coupling device), DC 0 - 1000 (Coupling device) V
- Auxiliary voltage: DC, AC/DC



Insulation monitor IL 5880

- Width: 35 mm
- Response value: 5 - 500 k Ω
- IMD type: AC
- Nominal voltage IT system: AC 0 - 500 V
- Auxiliary voltage: AC, DC



Insulation monitor SL 5881

- Width: 35 mm
- Response value: 5 - 500 k Ω
- IMD type: DC
- Nominal voltage IT system: DC 12 - 280, DC 24 - 500 V
- Auxiliary voltage: Without, AC, DC



Insulation monitor IL 5881

- Width: 35 mm
- Response value: 5 - 500 k Ω
- IMD type: DC
- Nominal voltage IT system: DC 12 - 280, DC 24 - 500 V
- Auxiliary voltage: DC



Insulation monitor SL 5880

- Width: 35 mm
- Response value: 5 - 500 k Ω
- IMD type: AC
- Nominal voltage IT system: AC 0 - 500 V
- Auxiliary voltage: AC, DC



Insulation monitor IP 5880

- Width: 35 mm
- Response value: 5 - 500 k Ω
- IMD type: AC
- Nominal voltage IT system: AC 0 - 500 V
- Auxiliary voltage: AC/DC



Insulation monitor AI 897

- Width: 45 mm
- Response value: 10 - 80 k Ω
- IMD type: AC
- Nominal voltage IT system: AC 24 - 500 V
- Auxiliary voltage: Without



Insulation monitor IN 5880/711

- Width: 52,5 mm
- Classification: For medically used rooms
- Response value: 50 - 500 k Ω
- IMD type: AC
- Nominal voltage IT system: AC 0 - 500 V
- Auxiliary voltage: AC



Insulation monitor IP 5880/711

- Width: 70 mm
- Classification: For medically used rooms
- Response value: 50 - 500 k Ω
- IMD type: AC
- Nominal voltage IT system: AC 0 - 500 V
- Auxiliary voltage: AC



Insulation monitor RP 5888

- Width: 70 mm
- Response value: 5 - 5000 k Ω
- IMD type: AC
- Nominal voltage IT system: AC 0 - 500 V
- Auxiliary voltage: AC/DC

Insulation monitoring at DC charging stations

The number of electric vehicles is steadily increasing and will grow even faster in the future. Thus, the expansion of the charging station infrastructure is also being driven forward, because DC charging stations are the first choice when electric vehicles are to be charged within a very short time. During the charging process, it is essential to ensure electrical safety. For this purpose, an unearthed DC power supply system (IT system) with insulation monitoring is set up and monitored by means of an insulation monitoring device (IMD). The user must not be exposed to danger from high voltages (up to 1000 V) at any time. The insulation

monitors **RN 5897/020** are used especially for DC charging stations according to the IEC/EN 61851-23 standard and take over the monitoring during the charging process from the charging station into the vehicle.

Insulation monitoring of switched off consumers

Electrical systems must be monitored. There are several reasons for this: This protects people and plants from damage, and monitoring also makes a significant contribution to availability. Modern insulation monitors can even monitor drive technology components when they are not in operation.

Electrical drive technology plays an important role in many applications in mechanical and plant engineering. If a drive fails once, this inevitably leads to a standstill of the machine or system. In the worst case, complete plants can no longer produce, which is usually associated with high costs.

Early information prevents system downtimes

Insulation monitors of the VARIMETER IMD series monitor the insulation resistance in unearthed systems (IT systems). The DIN VDE 0100-410 and DIN VDE 0100-710 standards prescribe the use of an insulation monitor in unearthed systems to report an initial fault between an active conductor and a body or against earth. The insulation monitoring device must trigger a visual and / or acoustic signal when the first fault occurs. Malfunctions as a result of insulation faults and the associated cost-intensive interruptions to operation, personal injury and damage to property are avoided. The insulation monitor was developed especially for use in modern power supplies, which often also contain converters, power converters, thyristor controllers or directly connected DC components. EMC interference suppression measures with their leakage capacitances to ground play a major role there.

In unearthed power supplies (IT systems), no active conductor is directly connected to ground. In the event of an insulation fault, therefore, only a small fault current can flow, caused mainly by the system leakage capacitance. Overcurrent protection devices do not respond here and the voltage supply is maintained. The work process, e.g. an operation, can be completed. The permanent monitoring of the insulation resistance by the isowatch ensures early information about possible hazards. Faults can be eliminated in good time.

The insulation monitor is connected between the active system conductors and earth. With active measuring methods, it superimposes a measuring voltage on the network. If there is an insulation fault, the measuring circuit closes and a small current proportional to the insulation fault flows. This measuring current is evaluated by the electronics of the device. If the insulation resistance falls below a certain value (response value), a message is issued by the device. Insulation monitoring devices of the VARIMETER IMD family are available for direct voltage (DC), alternating voltage (AC) and mixed networks (AC/DC), e.g. networks with voltage or frequency changes, high system leakage capacitances or DC voltage components.

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