

Installation

1. Make sure the SIM-Q MKII is correctly configured for the specific application.
2. For the auxiliary supply, connect the terminals to the correct voltage. See the label on the SIM-Q MKII.
3. Connect PE to ground and P to a phase. If it is a 3-phase network, then you can connect any of the phases to P.

The recommended fuse size is maximum 2 A.



WARNING



High-voltage MEGGER

If a high-voltage MEGGER is used, the SIM-Q MKII must be disconnect at terminal P before tests are done. Failure to do so may result in damage to the SIM-Q MKII.

Adjustment of the set point

1. Turn the knob on the front of the display to *TEST*. The SIM-Q MKII is now in test mode.
2. The actual set point is shown on the display.
3. Go the rear of the SIM-Q MKII to adjust the set point.

During the first 10 seconds after you turn on the SIM-Q MKII, the meter pointer shows the actual set point setting and activates its relay.

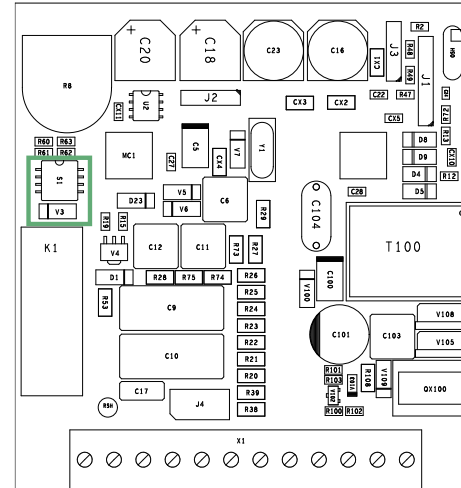
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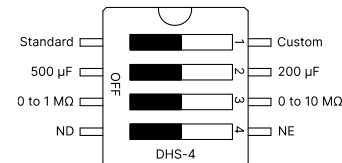
Default settings

Use the four jumpers on the PCB to configure the relay and change the default settings. Remove the rear cover to access the jumpers. The jumpers are under the set pointer potentiometer.



Configure the DIP switches

- DIP #1: You can set DIP #1 to OFF (Standard) or ON (Custom). If you set the switch to OFF, the SIM-Q MKII loads the settings from a hard-coded memory area. If set to ON, the settings are loaded from a configurable memory area, which is configured by DEIF.
- DIP #2: You can set DIP #2 to OFF (500 μ F) or ON (2000 μ F). The switch is used to configure the maximum leakage capacitance.
- DIP #3: You can set DIP #3 to OFF (measuring range 0 to 1 M Ω) with 22 k Ω on the scale centre, or ON (measuring range 0 to 10 M Ω) with 220 k Ω on the scale centre. *
- DIP #4: Use DIP #4 to configure the relay output. If you set the switch to OFF (ND), the output is a normally de-energised contact. If you set the switch to ON (NE), the output is a normally energised contact.



NOTE * A change of scale is necessary when you change the measuring range.



CAUTION

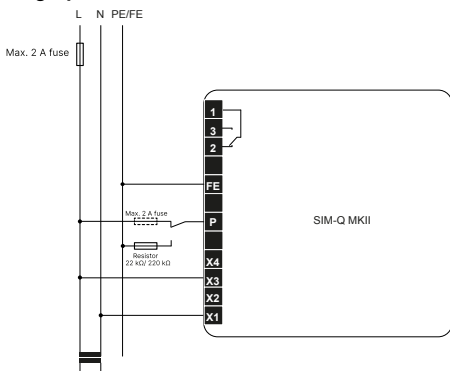


Electrostatic discharge protection

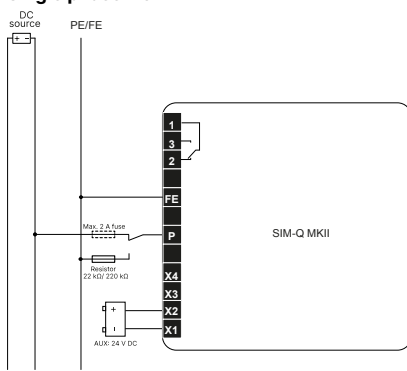
You must protect the PCB against static discharges during configuration. When the SIM-Q MKII is installed and connected, these precautions are no longer necessary.

Wiring diagrams

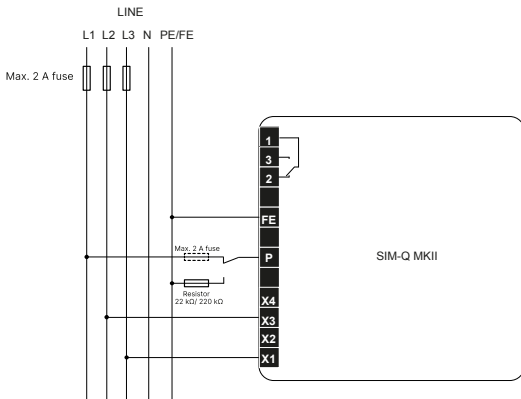
Single phase AC



Single phase DC



3-phase AC



Mounting instructions

Use the correct tools for mounting and do not exceed the recommended tightening torques.

CAUTION



Read the instructions

Read these instructions before installation of the insulation monitor, to avoid personal injury and damage to the equipment.

NOTICE



Warranty

The warranty is lost for products that are damaged due to incorrect tools used for mounting or excessive tightening of the terminals and screws.

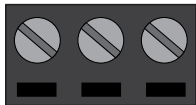
Tools

Use a screwdriver to mount the insulation monitor. Only use two fingers on the screwdriver to make sure you do not exceed the maximum tightening torque.

You must not use an electrical screwdriver to mount the monitor.

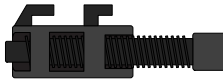
Tightening torques

Terminals



Maximum tightening torques for terminals: 0.5 Nm

Mounting screws



Maximum tightening torques for terminals: 0.5 Nm