



VDE IEC



Product Description

The purpose of this device is to continuously monitor the low resistance between two points. A typical application involves monitoring ground continuity in a system. One monitor is required for every two independent points that need to be monitored.

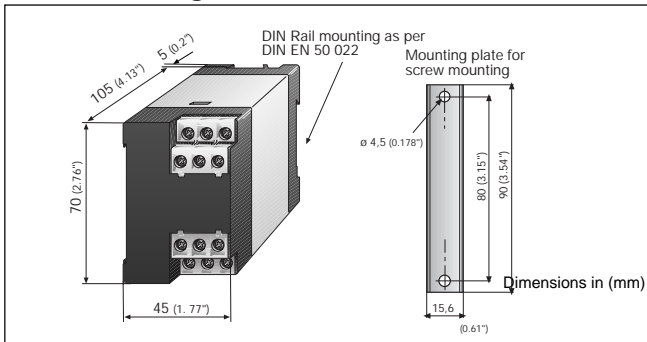
Operational Information

The SLU140 monitors the ohmic resistance of the measuring loop between the terminals E and \perp . If the monitored ground loop resistance exceeds the preset value "Y", it will activate the red LED-indicator "R>Y" and the output relay will change state.

If a stray voltage >AC 25 V occurs on the measuring circuit, i.e. by open circuits (PE interrupted) and earth fault at electrical equipment, it will be indicated by the red LED "AC".

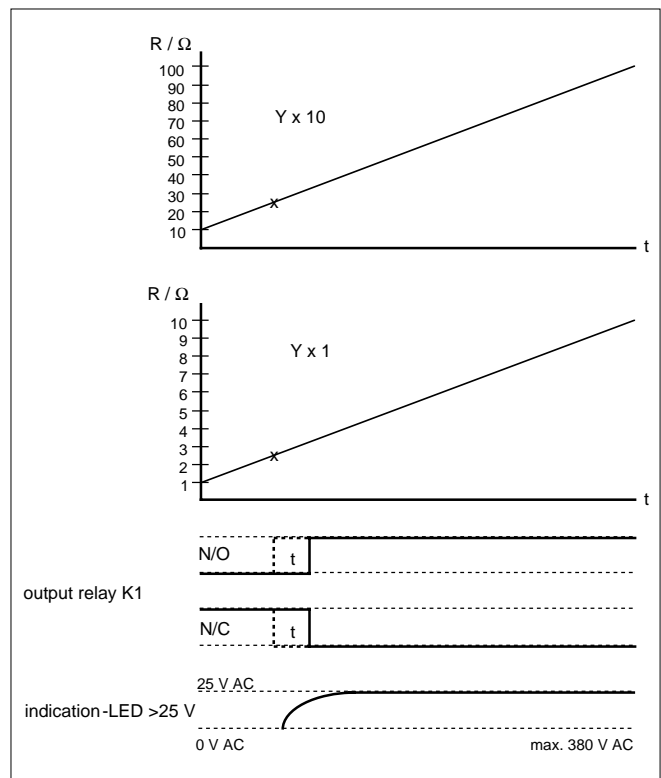
The device has a switch "Y x 1, Y x 10" to select either the 1 ... 10 Ω or 10 ... 100 Ω. The adjustable time delay can be set from 1 ... 10 sec to minimize nuisance alarms from stray AC and DC voltages on the measuring circuit.

Dimension Diagram



- Two ranges of response values that are switch selectable: 1 to 10 Ω / 10 to 100 Ω
- As low as 1 second response time
- Can withstand stray voltages up to 380 volts
- Built-in operation and alarm LEDs
- Built-in test or reset button
- One DPDT alarm contacts
- Compact 45 mm housing with information card
- ISO9001 Certified Quality Control

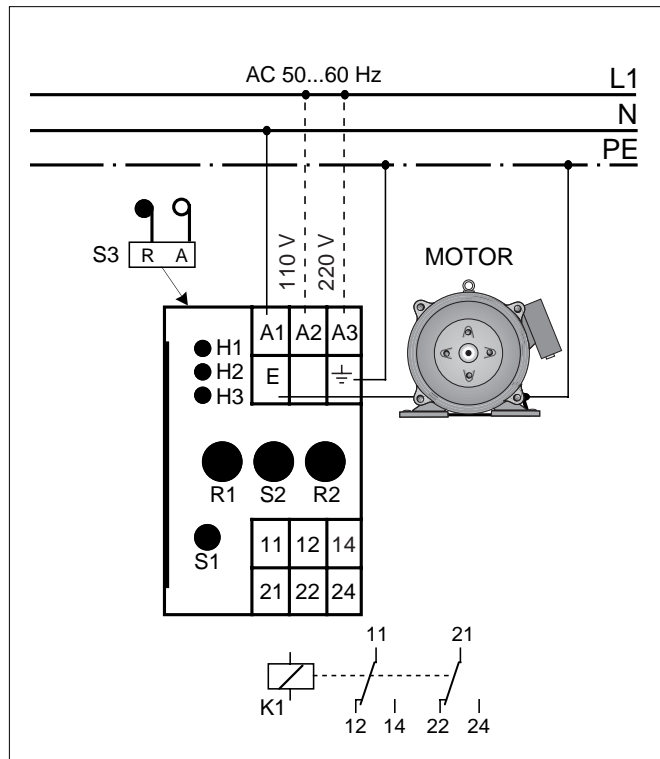
Operation Diagram



Technical Data SLU140

Nominal insulation voltage	AC 380
Test voltage	1500 V
Operating class	continuous
Rated supply voltage U_N	AC 120/240 V or DC 12 V
Operating range of U_N	0.8 ... 1.15 U_N
Max. self consumption	5 VA
Adjustable response value R_{AN}	1 ... 10 Ω or 10 ... 100 Ω
Response delay	1 ... 10 sec
Response value for stray voltage	>AC 25 V
Response delay for stray voltage	<60 sec
Max. admissible stray voltage	AC 380 V
Constant measuring current	10mA
Switch components	one DPDT contact
Switch capacity max.	33 W, 1100 VA
Rated contact voltage	240 V
Continuous current	5 A
Break capacity	
at AC 240 V and 0.4 power factor	3 A
at DC 110 V and L/R = 0	0.3 A
Relay mode	Normally Energized / De-energized
Adjustment by factory	Normally Energized (N.E.)
Admissible ambient temperature	
when operating	-10°C ... +50°C
when stored	-20°C ... +70°C
Tests according to VDE 0435, part 303 and IEC 255-4	
Impulse voltage strength	class III
HF-noise resistance	class III
Mounting	screw or DIN rail
Type of connection	terminal screws with self-lifting clamp washers
Terminal screws	M 3.5
Wire size	
single wire	14 AWG
stranded with end sleeve	16 AWG
Housing material	RABS 9000
Protection class according to DIN 40 050	
Internal components	IP 50
Terminals w/o terminal covers	IP 10
with terminal covers	IP 20
Article number (120VAC)	925158
Wiring diagram	Z 120 404
Weight approx.	300 g

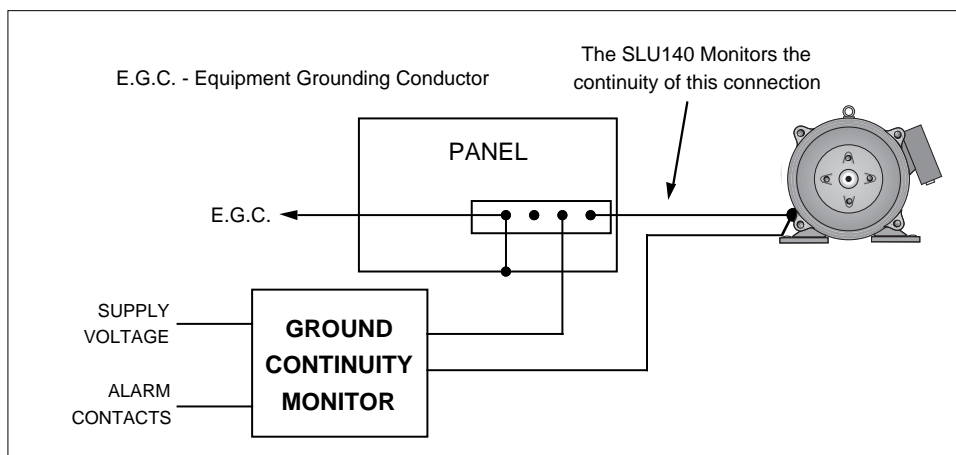
Wiring diagram



Legend to Wiring Diagram

- H1 operation LED, green
- H2 alarm LED, red "R>Y"
- H3 alarm LED, red, stray voltage >25 V " ⚡ AC"
- S1 test or reset button, pre-set to test button
- S2 switch for range of response value 1 ... 10 Ω or 10 ... 100 Ω
- S3 switch for the operation of output relay K1, accessible through the casing opening, R = N.E. (Normally Energized)
- A = N.D. (Normally De-energized)
- R1 adjustable response value (R > Y)
- R2 adjustable response delay T - sec
- K1 output relay with DPDT contact

The supply voltage is 120 V AC (Terminals A1-A2) or 240 V AC (Terminals A1-A3). Units available for 12 V DC also.



Right to modifications reserved

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