Product datasheet

Specifications

VIGILOHM IM400L - low voltage - 24 - 48 VCA

IMDIM400L

EAN Code: 3606489488574

Main

Range	Vigilohm
Device short name	IM400L
Product or component type	Insulation monitoring device
Earthing system	IT
Application	Environment - standard application Marine application
Network size	Large or highly disturbed network
Electrical circuit type	Power circuit Control circuit
Network capacitance	Highly polluted
Type of network	1P + N 3P 3P + N

Complementary

Configurable filtering time	4 s 40 s 400 s
Response time	0.8 s 1/5th of set filtering time 8 s 1/5th of set filtering time 80 s 1/5th of set filtering time
Power quality analysis	Transient capture
Input type	Contact for injection inhibition Dry contact Contact for injection inhibition Modbus
Display type	LCD display
Information displayed	Resistance value Capacitance value Evolution of resistance in graph
User language	English Italian French Russian Portuguese German Spanish Chinese
Connections - terminals	Removable screw terminal block 0.2…2.5 mm²
Overvoltage category	III 300 V II 600 V

Environment

IP degree of protection	Case: IP20 Front face: IP54
Environmental characteristic	Exposure to damp heat not in service conforming to IEC 60068-2-30 Exposure to damp heat in service conforming to IEC 60068-2-56 Salt mist conforming to IEC 60068-2-52 1K22 conforming to IEC 60721-3 2K11 conforming to IEC 60721-3-2 3K24 conforming to IEC 60721-3-3
Operating altitude	<= 3000 m
Relative humidity	0…92 %
Ambient air temperature for operation	-25…55 °C
Ambient air temperature for storage	-40…70 °C

Physical

Mounting mode	Flush-mounted (panel)
Mounting position	Horizontal
Material	Thermoplastic
Type of installation	Indoor
Net weight	0.645 kg
Cut-out dimensions	112 x 148 mm
Height	123 mm
Width	159 mm
Depth	90 mm

Input

Network rated voltage	0…480 V - AC at 45...440 Hz (device connected to phase) 0…830 V - AC at 45...440 Hz (device connected to neutral) 0…480 V - DC
Type of measurement	Network insulation resistance, range: 10 Ohm...10 MOhm, accuracy: +/- 1 % Earth leakage capacitance, range: 0.01...500 µF, accuracy: +/- 5 %

Conformance

Pollution degree	2
Standards	IEC 60364-4-41 IEC 61010-1 IEC 61557-8 UL 61010-1 IEC 61326-2-4 EN/IEC 61508 level SIL2
Product certifications	UL CE DNV ABS RMRS cULus CSA EAC EU-RO MR TA RCM

Communications & Management

Fault event log	Alarm logs Time stamping 30 events

Operating mode	Control Power
Local signalling	Green indicator light: satisfactory insulation resistance White indicator light: below prevention threshold Red indicator light: wiring or internal fault Yellow indicator light: insulation fault Yellow flashing indicator light: communication
Threshold setting	Pre-alarm: 1 kOhm...1 MOhm Alarm: 40 Ohm...500 kOhm
Alarm optional delay	0...120 min for signalling circuit 0...120 min for alarm
Response time	<= 4 s
Self-test	Auto test at start and every 5h Manual
Self-test communication	HMI: test reports Dry contact: test reports
Dry contact type	2 C/O standard or fail-safe
Signalling circuit voltage	250 V - AC at 3 A 48 V - DC at 1 A
Communication port protocol	Modbus RS485

Supported Hardware

Product compatibility	Automatic fault locator

Power Requirements

[Us] rated supply voltage	24...48 V DC tolerance: +/- 15 %
Power consumption in VA	25 VA
Power consumption in W	10 W
Overcurrent protection	2 A

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.000 cm
Package 1 Width	17.500 cm
Package 1 Length	21.500 cm
Package 1 Weight	926.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.334 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**450 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**111 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.3 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.4 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**336 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**1 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**D55c3a22-c942-4ef7-92b3-b9dcd1c41082**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**10**
End of life manual availability	**End of Life Information**
Take-back	**Nej**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**

Technical Illustration

Assembly's dimensions