

Product data sheet

Specifications



VIGILOHM IM400C - coated - 100 - 440 VAC

IMD-IM400C

Main

| | |
|---------------------------|---|
| Range | Vigilohm |
| Device Short Name | IM400C |
| Product Or Component Type | Insulation monitoring device |
| Device Application | Harsh environment application Photovoltaic |
| Electrical Circuit Type | Large or highly disturbed network |
| Earthing System | IT |
| Language | Portuguese Italian French German English Chinese Russian Spanish |

Complementary

| | |
|--------------------------|---|
| 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 - measurement range: 10 Ohm...10 MOhm Earth leakage capacitance - measurement range: 0.1...500 µF |
| 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 |
| Time Delay Range | 0...120 min for signalling circuit |
| Response Time | <= 4 s |
| Auxiliary Supply Voltage | 100...440 V AC 50/60 Hz +/- 15 % 100...440 V AC 400 Hz +/- 15 % 100...440 V DC +/- 15 % |
| Power Consumption In Va | 25 VA |
| Measurement Voltage | 120 V 15 V 33 V |
| Measurement Current | 0...825 µA 0...3 mA 0...375 µA |
| Internal Impedance | 40 kOhm - AC at 0.1...440 Hz 40 kOhm - DC |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|-----------------------------|---|
| Test Function | Manual Self test |
| Output Contact | 2 C/O standard or fail-safe |
| Breaking Capacity | 250 V - AC at 6 A 48 V - DC at 1 A |
| Input Function | Injection inhibition: 24 V AC 5 mA |
| Communication Port Protocol | Modbus |
| Communication Port Support | RS485 |
| Display Type | Digital display |
| Mounting Mode | Flush-mounted |
| Mounting Support | Panel |
| Mounting Position | Horizontal |
| Connections - Terminals | Removable screw terminal block0.2...2.5 mm² |
| Material | Thermoplastic |
| Harsh Environment | Coated |
| Overvoltage Category | III |
| Net Weight | 0.75 kg |
| Cut-Out Dimensions | 112 x 148 mm |
| Height | 123 mm |
| Width | 159 mm |
| Depth | 90 mm |

Environment

| | |
|---------------------------------------|--|
| Dielectric Strength | 4000 V - AC 5500 V - DC |
| 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 |
| Operating Altitude | <= 3000 m |
| Pollution Degree | 2 |
| Relative Humidity | 0...94 % |
| Type Of Installation | Indoor Enclosed outdoor |
| Standards | IEC 60364-4-41 IEC 61010-1 IEC 61557-8 CSA C22.2 No 14-05 IEC 60364-5-51 UL 508 |
| Product Certifications | RMRS DNV CSA ABS UL cULus EAC CE |
| Ambient Air Temperature For Operation | -25...55 °C -25...70 °C |

| | |
|-------------------------------------|-------------|
| Ambient Air Temperature For Storage | -40...70 °C |
|-------------------------------------|-------------|

Packing Units

| | |
|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 14.5 cm |
| Package 1 Width | 18.0 cm |
| Package 1 Length | 21.5 cm |
| Package 1 Weight | 953.0 g |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 4 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 4.442 kg |

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Certifications & Standards

| | |
|---------------------------|--|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| California Proposition 65 | WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov |