Product data sheet

IMD-IM400

VIGILOHM IM400 100 - 440 VCA

Main

Range
Vigilohm

Device short name
IM400

Product or component type
Insulation monitoring device

Device application
Marine application
Standard environment application

Electrical circuit type
Large or highly disturbed network

Earthing system
IT

Language
Italian
French
German
Chinese
Portuguese
Russian
Spanish
English

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 %

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.
### Power consumption in VA
- 25 VA

### Measurement voltage
- 120 V
- 15 V
- 33 V

### Measurement current
- 0…3 mA
- 0…825 µA
- 0…375 µA

### Internal impedance
- 40 kOhm - AC at 0.1…440 Hz
- 40 kOhm - DC

### 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
- RS485

### Display type
- Digital display

### Mounting mode
- Flush-mounted

### Mounting support
- Panel

### Mounting position
- Horizontal

### Connections - terminals
- Removable screw terminal block
- 0.2…2.5 mm²

### Material
- Thermoplastic

### 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…90 %

#### Type of installation
- Indoor

#### 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
- DNV
- RMRS
- CE
- ABS
- EAC
- CSA
- CULus
- UL

#### Ambient air temperature for operation
- -25…55 °C

#### Ambient air temperature for storage
- -40…70 °C
<table>
<thead>
<tr>
<th>Offer Sustainability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sustainable offer status</strong></td>
</tr>
<tr>
<td><strong>REACH free of SVHC</strong></td>
</tr>
<tr>
<td><strong>EU RoHS Directive</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Mercury free</strong></td>
</tr>
<tr>
<td><strong>RoHS exemption information</strong></td>
</tr>
<tr>
<td><strong>China RoHS Regulation</strong></td>
</tr>
<tr>
<td><strong>Environmental Disclosure</strong></td>
</tr>
<tr>
<td><strong>Circularity Profile</strong></td>
</tr>
<tr>
<td><strong>WEEE</strong></td>
</tr>
</tbody>
</table>