Product datasheet

Specifications

VIGILOHM ADVANCED 12 CHANNEL FAULT LOCATOR WITH MODBUS - 100-440VAC/DC

IMDIFL12MC

Price: 4,391.10 USD

Main

Range	Vigilohm
Device short name	IFL12MC
Product or component type	Insulation fault locator
Earthing system	IT HRG
Application	Marine application Environment - standard application
Network size	Large
Electrical circuit type	Power circuit Control/command circuit
Network capacitance	Highly polluted
Type of network	1P + N 3P 3P + N

Complementary

Configurable filtering time	5 s 40 s 400 s
Response time	1 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
Type of setting	Alarm threshold: settable per feeder
Accuracy	+/- 15 %
Display type	LCD display
Information displayed	Resistance value Capacitance value Evolution of resistance in graph
User language	Spanish German Italian Russian French Chinese English Portuguese
Connections - terminals	Power supply: removable screw terminal block 0.2…2.5 mm² Output relay: removable screw terminal block 0.2…2.5 mm² Toroids inputs: removable screw terminal block 0.2…1.5 mm² Communication: removable screw terminal block 0.2…2.5 mm² Voltage inputs: removable screw terminal block 0.2…2.5 mm²

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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 Long-term storage class 1K22 conforming to IEC 60721-3-1 Transport class 2K11 conforming to IEC 60721-3-2 Stationary use at weather protected locations class 3K24 conforming to IEC 60721-3-3
Mechanical characteristic	Long-term storage class 1M11 conforming to IEC 60721-3-1 Transport class 2M4 conforming to IEC 60721-3-2 Stationary use class 3M11 conforming to IEC 60721-3-3
Operating altitude	<= 3000 m
Relative humidity	5…92 %
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-40…85 °C

Physical

Mounting mode	Flush-mounted (panel) Clip-on (DIN rail)
Mounting position	Vertical Horizontal
Material	Thermoplastic
Type of installation	Indoor
Net weight	0.305 kg
Cut-out dimensions	92 x 104 mm
Height	110 mm
Width	108 mm
Depth	59 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) 480…1000 V - AC at 45...440 Hz (device connected to phase with PHT1000 subassembly) 830…1000 V - AC at 45...440 Hz (device connected to neutral with PHT1000 subassembly) 0…480 V - DC 480…1000 V - DC (device connected with PHT1000)
Number of channels	12
Type of measurement	History of alarms Network insulation resistance, range: 200 Ohm...250 kOhm Earth leakage capacitance, range: 0.1...15 µF
Monitoring function	Detection of toroids connection automatic Detection of toroids connection manual mode Detection of IM400 injection current permanent

Conformance

Pollution degree	2

Standards	IEC 60364-4-41 IEC 61010-1 IEC 60364-5-51 IEC 61557-9 IEC 61557-15 IEC 61326-2-4 UL 61010-1
Product certifications	CE DNV-GL EAC UL cULus

Communications & Management

Fault event log	Alarm logs
Local signalling	Yellow indicator light: insulation fault Yellow flashing indicator light: communication Green/red indicator light: product status Green indicator light: satisfactory insulation LCD display: transient fault
Threshold setting	Alarm: 200 Ohm...200 kOhm
Alarm optional delay	0...120 min for signalling circuit
Response time	<= 5 s
Self-test	Auto test at start and every 5h Remote test Manual
Dry contact type	1 C/O standard or fail-safe
Signalling circuit voltage	250 V - AC at 6 A 48 V - DC at 1 A
Communication port protocol	Modbus RS485

Power Requirements

[Us] rated supply voltage	100...300 V (LN) AC 50/60 Hz tolerance: +/- 15 % 100...440 V AC 50/60 Hz tolerance: +/- 15 % 80…120 V (LN) AC 400 Hz tolerance: +/- 15 % 100...440 V DC tolerance: +/- 15 %
Power consumption in VA	26 VA
Power consumption in W	10 W
Overcurrent protection	1 A

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.7 cm
Package 1 Width	18.2 cm
Package 1 Length	13.5 cm
Package 1 Weight	550.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm

Package 2 Length	40.0 cm
Package 2 Weight	5.2 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	**648 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**98 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.3 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**549 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.7 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	**D3328ed4-45d1-46a9-bf4a-dba261badb1a**
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 %	**8**
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