

IT filter (1014-289) IT ground isolation filter



- Allows ground fault tracing on IT grounded AC systems
- Operates on systems with frequencies down to 15 Hz
- Operates on systems up to 600 V
- Works with the MGFL100

DESCRIPTION

The Megger IT Filter 1014-289 allows the MGFL100 ground fault locator to locate earth/ground faults on IT grounded AC systems.

AC earth/ground faults

Specially protected IT networks, such as those found in hospitals, are designed in such a way that any contact with a voltage-carrying line is harmless. In the event of a short-to-earth, this protection reduces current flow to zero.

Important control, signal, and supply systems, such as those for railway installations, power plants, or other industrial facilities, are designed to be potential-free and are monitored by earth/ground fault indicators to ensure safe and uninterrupted operation.

Short-to-ground faults in IT networks, control lines or, for example, signal lines in railways are referred to as 'earth/ground faults'.

While a single earth/ground fault will not disrupt the service, a second earth/ground fault carries a high risk of partial or complete installation breakdown. For this reason, any earth/ground fault must be located and repaired as fast as possible. The MGFL100 allows tracing of these faults by directly coupling to the line. This can be done either off-line or on-line using a coupling filter.

FEATURES AND BENEFITS

- Operates on systems from 60 Hz down to 15 Hz.
- Supports ground fault locating on rail systems that operate on 16.67 Hz.
- Operates on systems up to 600 V.
- Connects between the MGFL100 transmitter's output and the circuit with the earth/ground fault.
- Isolates the MGFL100 transmitter from the AC circuit and allows injection of a 5.12 Hz trace signal.
- When used in conjunction with the capacitive pickup, it will allow the MGFL100 receiver to identify and alarm when placed on the circuit with the earth/ground fault.

APPLICATIONS

- (AC) IT networks
 - Hospitals
 - Railways
 - Maritime
 - Industrial facilities

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FEATURES

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SPECIFICATIONS

Filter resistance	150 Ω
Filter capacitance	2.5 µfd
Shunt Capacitance	20 µfd
Series Capacitance	48 H
Filter inductance	15 Hz to 70 Hz
Operating frequency range	0-600 V RMS
Operating voltage range	0-600 V RMS
Environmental	0 ° C to 50 ° C (32 ° F to 122 ° F)
Operating	-20 ° C to 60 ° C (-4 ° F to +140 ° F)
Storage	0-95 % non-condensing
Relative humidity	2000 m
Altitude	IP51 Ruggedized plastic case
Case	Meets the requirements of IEC61010-1, CE, CAT IV 600
Safety/EMC/Vibration	
Weight/Dimensions	25.4 cm x 13.34 cm x 17.27 cm (10 in" x 5.25 in" x 6.8 in")
Dimensions	5.10 kg max (11.25 lbs max)
Weight	IEC61010
Compliance	CE Certified

ORDERING INFORMATION

Item (QTY)	Cat. No.	Accessories
Catalog Number	IT Filter 1014-289	

Includes: IT Filter, filter to transmitter connection lead, and operations manual.