

MFT1720 Technical Specifications

INSULATION TESTING

Test voltages

Nominal Test Voltage: 1000 V, 500 V, 250 V (a.c.)

Output voltage tolerance: -0% +20% at rated load or less

Measuring Range All instruments:

10 k Ω - 1000 M Ω on all test voltages

Accuracy (at 20° C) $\pm 3\%$, ± 2 digits

Short Circuit Current: 1.5 mA nominal test current

Test Current on Load:

=>1 mA at min. pass values of insulation

CONTINUITY TESTING

Displayed Range 0,01 Ω to 99.99 k Ω

Intrinsic accuracy $\pm 2\%$ ± 2 digits

Open Circuit Voltage 4 V to 5 V

Test Current @ 0 Ω to 19.99 Ω

200mA +10mA -0mA

RCD TESTING

RCD Test Ranges (to EN61557-6)

Supply 50 V~500 V 45Hz~65 Hz

Test Current Accuracy:

No Trip Test: (1/2I) -8% to -2%

Trip Test: (I, 5I) +2% to +8%

Trip Time: $\pm 1\%$ ± 1 ms

Programmable RCD step Increments

10 mA to 50 mA 1 mA steps

50 mA to 500 mA 5 mA steps

500 mA to 1000 mA 10 mA steps

Fault (Touch) Voltage

Displayed range: 0 V to at least 253 V

Error: +5%/ +15% ± 0.5 V

LOOP TESTING

Supply: 48V to 440V (45Hz to 65Hz)

Display range: 0.01 Ω to 1000 Ω

Accuracy $\pm 5\%$ $\pm 0.03\Omega$

Nominal test current: 15mA

(at nominal 230VAC supply)

Nominal test current: 4A at nominal 230V supply

Prospective Fault Current (PFC)

Prospective fault current=

Measured Supply Voltage / Loop resistance

Maximum range: 50kA

SUPPLY MEASUREMENT

Voltage

Range 10V to 600 V; 25Hz to 400Hz

Accuracy: $\pm 2\%$ ± 1 V

Frequency

Range 15Hz to 400Hz

Resolution 0.1Hz