

Specifications for MFT40

CONTINUITY

| Open Circuit Voltage(DC) | Short Circuit Current | Ranges (Auto Range) | Accuracy | Reference conditions |
|--------------------------|-----------------------|---------------------|-----------------|---|
| >4V,<10V | >200mA | 9.99Ω, 99.9Ω, 1999Ω | ± 3% ± 2 digits | Temperature: 23°C +/- 5 °C Humidity: 45 – 75% RH |

Test lead Null 4Ω, Hazard warning LED > 25V, Typical Test Time (2Ω) < 2 sec

INSULATION

| Open Circuit Voltage (DC) | Output Current | Ranges (Auto Range) | Accuracy | Reference conditions |
|---------------------------|-------------------------|---|---|---|
| 250V | 1mA - 0 = + 20% @ 250kΩ | 9.99MΩ, 99.9MΩ, 199MΩ | ± 3% ± 2 digits | Temperature: 23°C +/- 5 °C Humidity: 45 – 75% RH |
| 500V | 1mA - 0 = + 20% @ 500kΩ | 9.99MΩ, 99.9MΩ, 199MΩ 499MΩ | ± 3% ± 1 digits ± 6% ± 1 digits | |
| 1000V | 1mA - 0 = + 20% @ 1MΩ | 9.99MΩ, 99.9MΩ, 199MΩ 399MΩ 999MΩ, 99.9MΩ | ± 3% ± 1 digits ± 3% ± 1 digits ± 6% ± 1 digits | |

Short circuit current (in to 2kΩ) < 2mA, Typical Test Time (10MΩ) < 2 sec

LOOP IMPEDANCE

| Ranges | Accuracy | Reference conditions |
|----------------------------|-----------------|---|
| ATT No trip 0.00 - 9.99 Ω | ± 5% ± 5 digits | Temperature: 23°C +/- 5 °C Humidity: 45 – 75% RH |
| ATT No trip 10.00 - 99.9 Ω | ± 3% ± 3 digits | |
| ATT No trip 100 - 500 Ω | ± 3% ± 3 digits | |
| High Current 0.00 - 500 Ω | ± 3% ± 3 digits | |

PSC / PFC

| |
|--|
| PSC accuracy is derived from measured loop impedance specification and measured voltage specification. |
| Voltage measurement: +/- 3% 50/60Hz and 90 - 250V |

RCD

| Function | Accuracy | Rated Voltage | Tripping Time Accuracy | |
|-----------|-------------------------|--|------------------------|---------------|
| X ½ | -0% to -10% | 195V - 253V AC 50Hz | Up to 1 second | ± (1% + 1ms) |
| X 1 | +0% to +10% | | Above 1 second | ± (1% + 10ms) |
| X 5 | +0% to +10% | | | |
| Ramp Test | Increments in 3mA steps | | | |
| Auto Test | 30mA RCD | ½ x 0°, ½ x 180°, 1 x 0°, 1 x 180°, 5 x 0°, 5 x 180° | | |

Standard Compliance

BS EN 61010-2-030:2010
BS EN 61326-2-2:2013
BS EN 61557:2007

ACCESSORIES

- MP-ACC063 distribution board test lead set
- MP-KAMP12 mains lead
- Calibration certificate
- Printed instruction manual
- Soft carry case