

19. Specifications

19.1 Accuracy

19.1.1. Insulation test

Specification	Detail
1000 Volts	10 k Ω – 999 M Ω $\pm 3\%$ ± 2 digits
500 Volts.	10 k Ω – 500 M Ω $\pm 3\%$ ± 2 digits >500 M Ω $\pm 10\%$ ± 4 digits
250 Volts.	10 k Ω – 250 M Ω $\pm 3\%$ ± 2 digits >250 M Ω $\pm 10\%$ ± 4 digits
100 Volts.	10 k Ω – 100 M Ω $\pm 3\%$ ± 2 digits >100 M Ω $\pm 10\%$ ± 4 digits
EN61557 range:	10 k Ω – 999 M Ω (1000 V range)
Voltage display:	$\pm 3\%$ ± 3 digits $\pm 0.5\%$ of rated voltage
Max service error:	$\pm 15\%$ ± 2 digits.
Short circuit current:	1.5 mA nominal test current
Test current on load:	≥ 1 mA at min. pass values of insulation
Output voltage tolerance:	-0% +20% at rated load or less

19.1.2. Continuity / Resistance

Specification	Detail
Intrinsic accuracy:	$\pm 2\%$ ± 2 digits (0.01 Ω to 99.9 Ω) $\pm 5\%$ ± 2 digits (100 Ω to 99.9 k Ω)
EN61557 range:	0.1 Ω to 99.9 k Ω
Open circuit voltage	5 V ± 1 V
Test current at 200 mA (0 Ω to 2 Ω):	>200 mA @ ≤ 2 Ω
Test current at 15 mA (0 Ω to 2 Ω):	>15mA @ ≤ 2 Ω
Max Service error:	$\pm 12\%$ ± 2 digits.

19.1.3. Loop test 2Hi (L-PE, L-N, L-L):

Specification	Detail
Intrinsic accuracy:	$\pm 5\%$ ± 3 digits
Display range:	0.01 Ω to 1000 Ω
Supply:	48 V to 480 V* (45 Hz to 65 Hz)
Test current high:	4.0 A (at 230 V)
PSCC range:	20 kA
EN61557 range:	0.30 Ω to 1000 Ω
Max service error:	$\pm 10\%$ ± 2 digits
* MFT1711 280 V	

19.1.4. Loop test 3Lo, 2Lo (L-E):

Specification	Detail
Intrinsic accuracy:	0.01 Ω to 39.9 Ω $\pm 5\%$ ± 5 digits 40.0 Ω to 999 Ω $\pm 10\%$ ± 5 digits
Display range:	0.01 Ω to 1000 Ω
Supply:	48 V to 280 V (45 Hz to 65 Hz)
Test current:	Pulsed
PFC range:	20 kA
EN61557 range:	1.0 Ω to 1000 Ω
Max service error:	$\pm 10\%$ ± 2 digits