

Specifications

Models

Model	Rated Amps	Output	Accuracy
TCL-B-100	100 A	0.33333 Vac	0.3%
TCL-B-050	50 A	0.33333 Vac	0.3%
TCL-B-100/40mA	100 A	40 mA	0.2%

Electrical

Line Frequency: 50 to 60 Hz

Maximum Continuous Primary Current: 250 amps

Maximum Voltage: 600 Vac

Overvoltage and Measurement Categories: CAT III: 600 Vac

Lead Wire: 2.4 m (8 feet), 18 AWG, 105°C, 600 V, twisted pair

Milliamp Output: Current output

Output Current: 40 mA at 100 A primary current

Output Protection: includes internal clamp Zener at 13 Vac

Millivolt Output: Voltage output, integral burden resistor

Output Voltage at Rated Amps: 0.33333 Vac (one-third volt)

Output Protection: internal burden resistor

Accuracy

Millivolt Output Accuracy (% of reading): TCL-B-xxx

Accuracy: $\pm 0.3\%$ from 1% to 120% of rated current

Phase angle:

± 0.15 degrees (9 minutes) from 20% to 120% of rated current

± 0.33 degrees (20 minutes) from 1% to 20% of rated current

IEEE C57.13 accuracy: class 0.6

IEC 60044-1 accuracy: class 0.5S

Milliamp Output Accuracy (% of reading): TCL-B-100/40mA

Accuracy: $\pm 0.2\%$ from 1% to 120% of rated current

Phase angle:

± 0.15 degrees (9 minutes) from 20% to 120% of rated current

± 0.33 degrees (20 minutes) from 1% to 20% of rated current

IEEE C57.13 accuracy: class 0.6

IEC 60044-1 accuracy: class 0.2

Regulatory

CE

UL: UL listed, X0BA, UL 2808, CAN/CSA-C22.2 No. 61010-1, E363660

RoHS Compliant

Environmental

Operating Temperature: -40°C to $+85^{\circ}\text{C}$ (-40°F to 185°F)

Operating Humidity: Non-condensing, 0 to 100% relative humidity (RH)

Operating Altitude: Up to 3000m

Pollution: POLLUTION DEGREE 2

Indoor Use: Suitable for indoor use

Outdoor Use: Suitable for outdoor use when mounted in a NEMA 3R or 4 (IP 66) rated enclosure, provided the ambient temperature will not exceed 85°C (185°F).

Mechanical

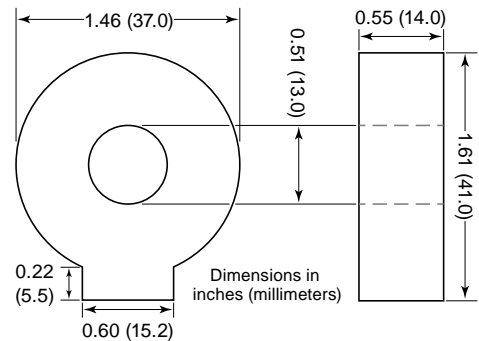
Width: 1.46 inches (37.0 mm \pm 0.3 mm)

Height: 1.61 inches (41.0 mm \pm 0.3 mm)

Thickness: 0.55 inches (14.0 mm \pm 0.2 mm)

Opening: 0.51 inches (13.0 mm \pm 0.2 mm)

Weight: 125 g



Warranty

All products sold by Continental Control Systems, LLC (CCS) are guaranteed against defects in material and workmanship for a period of five years from the original date of shipment. CCS's responsibility is limited to repair, replacement, or refund, any of which may be selected by CCS at its sole discretion. CCS reserves the right to substitute functionally equivalent new or serviceable used parts.

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