

CIBRE-L3 SERIES

Circuit Breaker Timer with Built-in Printer





Contact Timing Tests

3 Dry Contact Inputs

Ultra-lightweight

CIBRE-L3 SERIES 3-Contact Circuit Breaker Timer with Built-in Printer

CIBRE-L3 Series, 3-Contact Circuit Breaker Timers are designed using advanced engineering technology to test contact timings of circuit-breakers.

CIBRE-L3 Series have fast, easy and accurate measurement features by its user-friendly software.

CIBRE-L3 Series are battery-powered devices (optional feature), which allow users to perform tests even without power supply during field tests.

Why do we need to test circuit breakers?

It is very important to test circuit breakers regularly. Contact Timing Tests are performed to determine the optimal performance of the breakers.

The testing can determine improper breaker operations in case of system fault and to improve system reliability.

Contact Timing Tests

Contact timing tests are performed to compare the breakers' main & resistor contact performance against the manufacturer's specifications.

The breakers OPEN, CLOSE, OPEN-CLOSE, CLOSE-OPEN and OPEN-CLOSE-OPEN operations are timed in milliseconds (ms) and cycles and then compared with the manufacturer's specification to determine the performance of the circuit breaker.

CIBRE-L3 Series feature with a 4.3-inch large colour touch display, which is visible under both bright sunlight as well as dim light conditions.

With the HighTest Data Management Platform (DMP Software), users can analyse and manage measurement results on PCs.

Operators can easily print the measurement results with the 2.25-inch built-in printer of CIBRE-L3 Series. The results can also save to a USB flash drive or to the device's internal memory.

Multi-language capability and user-friendly operation menu make it easy to control CIBRE-L3 Series.

CIBRE-L3 Series devices are light-weight, compact and rugged with the protection of IP67 (case closed) which makes it perfect for the field test.



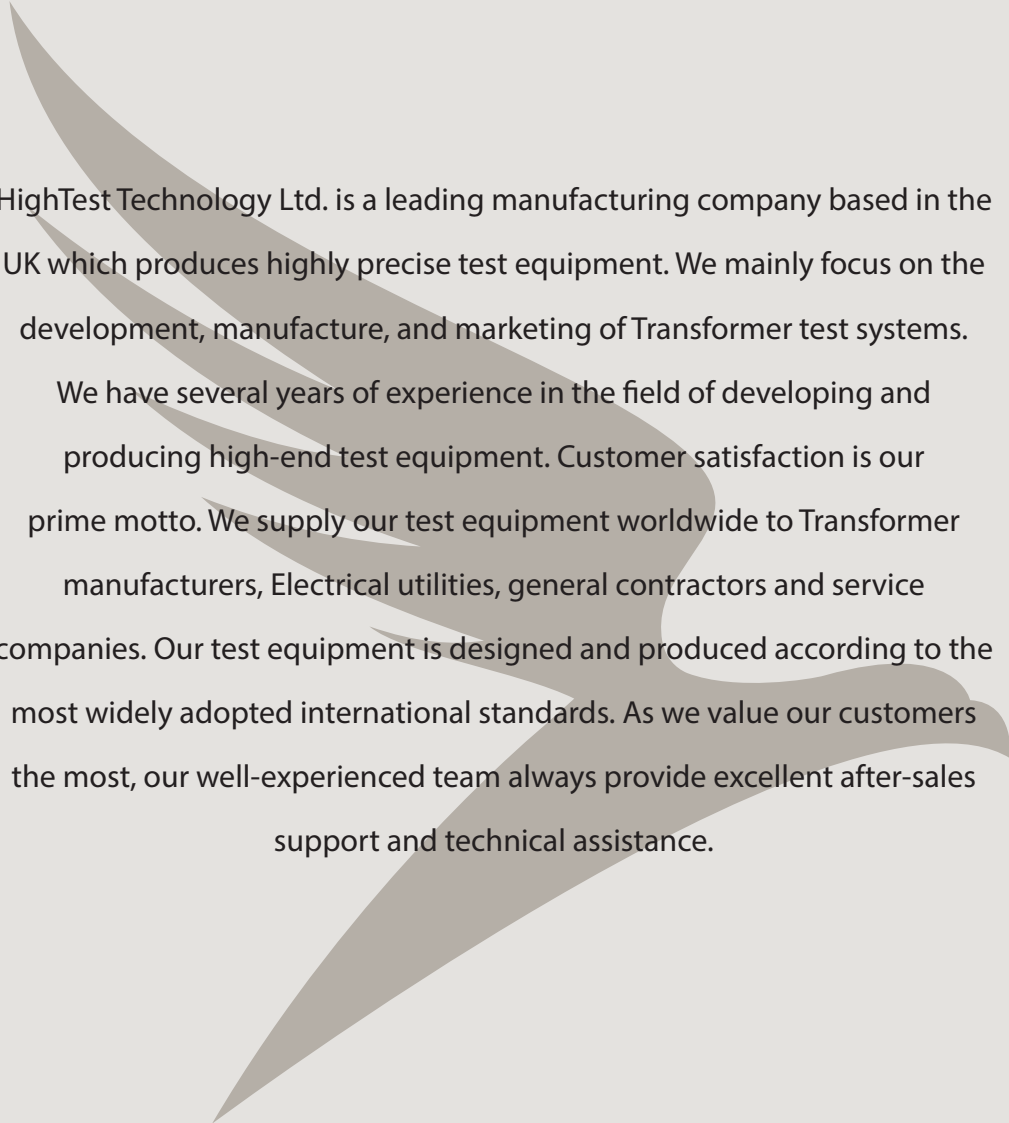


Features

- Contact Timing (O, C, O-C, C-O & O-C-O)
- 3 Dry Contact Inputs
- Timing Accuracy: 0.05% rdg \pm 0.1 ms
- Timing Windows: 1s, 10s & 20s
- Contact Detection Range: Closed \leq 20 Ω & Open \geq 5000 Ω
- Optional Battery
- Optional Bluetooth Communication
- PC Software
- 2.25" Built-in Printer
- 4.3" TFT Touch Colour Display
- Lightweight and Portable
- Protection Class IP67 (case closed)

Technical Specifications

| | | | |
|---------------------------------------|--|----------------------|---------------|
| Measurement Parameters | Contact Timing (O, C, O-C, C-O & O-C-O) | | |
| Dry Contact Inputs | 3 dry input channels (each detects main) | | |
| Timing Windows | 1s, 10s, 20s | | |
| Timing Resolution | 1 s duration | 10 s duration | 20 s duration |
| | \pm 50 μ s | \pm 500 μ s | \pm 1 ms |
| Timing Accuracy | 0.05% rdg \pm 0.1 ms | | |
| Dry contact channel protection | Fuses and Diodes protection, All contacts grounded until test | | |
| Contact detection range | Closed | \leq 20 Ω | |
| | Open | \geq 5000 Ω | |
| Resistor detection range | 20 Ω - 5000 Ω | | |
| Trigger input voltage | 24 – 300 V DC or AC _{peak} | | |
| Dry contact input protection | Diode Protection/ ESD | | |
| Breaker Operations | OPEN, CLOSE, OPEN-CLOSE, CLOSE-OPEN, OPEN-CLOSE-OPEN | | |
| Breaker Initiate Capacity | 20 A, 300 V DC or AC _{peak} | | |
| Initiate current reading range | 0 – 20A DC, 5 kHz | | |
| Input Power | 100-240 V, 47/63 Hz | | |
| Battery | Yes, 14.4 V 3.45 Ah (Optional ; Models: CIBRE-L3B & CIBRE-L3B BLUE) | | |
| Display | 4.3-inch Colour Touch Display | | |
| Memory | Up to 200 records | | |
| Communication | USB 2.0/1.1 Standard-A, USB 2.0/1.1 Standard-B Bluetooth (Factory install option; Models: CIBRE-L3 BLUE & CIBRE-L3B BLUE) | | |
| Printer | 2.25-inch Built-in Printer, (Optional model without Printer is also available) | | |
| PC Software | DMP Software (Windows 10) | | |
| Dimensions | 12.5" x 10.1" x 6.0" (318 mm x 257 mm x 152 mm) | | |
| Weight | 3 kg (models with battery) | | |
| Working Temperature | -10 °C to +60 °C | | |
| Humidity | 95% RH non-condensing | | |
| Protection Class | IP67 (case closed) | | |
| Scope of Supply | CIBRE-L3 device, 6m Contact Cable, 10m Contact Extension Cable, 1m Initiate Cable, 5m Initiate Extension Cable, 1m External Trigger Cable, 5m External Trigger Extension Cable, Power Cord, Ground Cable, USB Cable, Printer Paper (2x), USB Flash Drive, DMP Software, Instruction Manual (soft copy), Soft Carry Bag | | |
| Ordering Information | CIBRE-L3 , 3-Contact Circuit Breaker Timer with Built-in Printer | | |
| | CIBRE-L3 BLUE , 3-Contact Circuit Breaker Timer with Built-in Bluetooth & Printer | | |
| | CIBRE-L3B , 3-Contact Circuit Breaker Timer with Built-in Battery & Printer | | |
| | CIBRE-L3B WP , 3-Contact Circuit Breaker Timer with Built-in Battery (Without Printer) | | |
| | CIBRE-L3B BLUE , 3-Contact Circuit Breaker Timer with Built-in Battery, Bluetooth & Printer | | |



HighTest Technology Ltd. is a leading manufacturing company based in the UK which produces highly precise test equipment. We mainly focus on the development, manufacture, and marketing of Transformer test systems.

We have several years of experience in the field of developing and producing high-end test equipment. Customer satisfaction is our prime motto. We supply our test equipment worldwide to Transformer manufacturers, Electrical utilities, general contractors and service companies. Our test equipment is designed and produced according to the most widely adopted international standards. As we value our customers the most, our well-experienced team always provide excellent after-sales support and technical assistance.



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