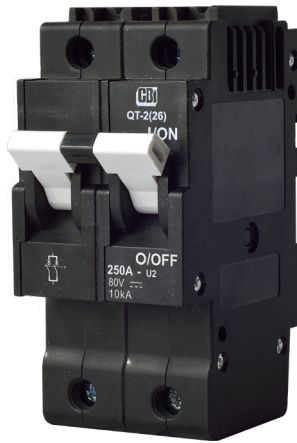


## QT(26) - Series Miniature Circuit Breakers



1 pole  
Dual (DIN & mini rail) mount



2 pole  
Dual (DIN & mini rail) mount



4 pole  
Dual (DIN & mini rail) mount

### Features

- DC circuit breaker
- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- One, two, two pole parallel and four pole (2pole + 2pole parallel)
- VDE and CCC approved, CE certified
- UL 489A listed
- IEC 60947-2 and AS/NZS 60947-2 approved
- Ratings 70 A to 250 A
- Precision tripping characteristics
- Can be switched immediately after tripping
- Dual (DIN & mini rail) mount, 57 mm front escutcheon (Black)

### Applications

- DC circuit protection (DIN / EN 60947-2)
- Telecom / datacom equipment
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment
- Industrial equipment

### Optional Accessories

- Handle lock - SAAP001
- Escutcheon blank - SFEB000
- Safety blank - SAEB0



AS / NZS 60947-2

**Hydraulic-Magnetic Circuit Breakers 100% rated, unaffected by ambient temperature**

## QT(26) - Series Miniature Circuit Breakers

### Technical Data

| Product Type                    | Circuit Breaker              |   |                |                                         |
|---------------------------------|------------------------------|---|----------------|-----------------------------------------|
| Approvals                       | UL 489A, CSA C22.2 No. 5 -16 |   |                |                                         |
| Number of Poles                 | 1                            | 2 | 2 pole bridged | 4 pole (2pole + 2pole) Parallel Bridged |
| Operating Voltages              | 80 Vdc                       |   |                |                                         |
| Standard Current Rating         | 70 A to 125 A                |   | 250 A          | 250 A                                   |
| Interrupting S/C Capacity (Ics) | 10 kA                        |   |                |                                         |

| Product Type                         | Circuit Breaker                       |   |                |                                         |
|--------------------------------------|---------------------------------------|---|----------------|-----------------------------------------|
| Approvals                            | GB14048-2, DIN / EN 60947-2, CE, UKCA |   |                |                                         |
| Number of Poles                      | 1                                     | 2 | 2 pole bridged | 4 pole (2pole + 2pole) Parallel Bridged |
| Operating Voltages                   | 80 Vdc                                |   |                |                                         |
| Minimum Current Rating               | 70 A                                  |   | 140 A          |                                         |
| Maximum Current Rating               | 125 A                                 |   | 250 A          |                                         |
| Interrupting S/C Capacity (Ics)      | 5 kA                                  |   |                |                                         |
| Ultimate S/C Breaking Capacity (Icu) | 10 kA                                 |   |                |                                         |

| Product Type                         | Circuit Breaker  |   |                |                                         |
|--------------------------------------|------------------|---|----------------|-----------------------------------------|
| Approvals                            | AS / NZS 60947-2 |   |                |                                         |
| Number of Poles                      | 1                | 2 | 2 pole bridged | 4 pole (2pole + 2pole) Parallel Bridged |
| Operating Voltages                   | 80 Vdc           |   |                |                                         |
| Minimum Current Rating               | 70 A             |   | 140 A          |                                         |
| Maximum Current Rating               | 125 A            |   | 250 A          |                                         |
| Interrupting S/C Capacity (Ics)      | 5 kA             |   |                | 2.5 kA                                  |
| Ultimate S/C Breaking Capacity (Icu) | 10 kA            |   |                |                                         |

Verify approvals for specific ratings in accordance with the relevant test certificates.

## QT(26) - Series Miniature Circuit Breakers

### Technical Data

| Product Type                    | QT(26)                                                                                                                                                   |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Operating Temperature   | -40 °C to +85 °C                                                                                                                                         |
| Mounting Options                | Dual (DIN & mini rail) mount                                                                                                                             |
| Time Delay Curves               | 1, U2                                                                                                                                                    |
| Endurance                       | 10000 operations - 1500 with current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)*<br>Minimum of 1000 operations with current (UL 489A Clause 12)* |
| Dielectric Strength             | 1000 - 2000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)*<br>1000 Vac plus twice the rated voltage for one minute (UL 489A Clause 8)*                 |
| Rated Impulse Withstand Voltage | 4 kV (IEC 60947-2 Clause 8.3.3.2)*                                                                                                                       |
| Weight                          | 200 g per pole (unpacked)                                                                                                                                |
| Altitude                        | Certification tests done at altitude ≈ 2000 metres.<br>Will operate at higher altitudes.                                                                 |
| Shock                           | 50 G to MIL-STD-202G, test method 213B, test condition 1                                                                                                 |
| Vibration                       | 10 G to MIL-STD-202G, test method 204D, test condition A                                                                                                 |
| Flammability                    | I3 - Ignition does not persist at 850 °C after<br>glow wire is withdrawn with an oxygen index of ≥ 28                                                    |
| Toxicity                        | F1 - Smoke index of ≤ 20 which determines the fume class                                                                                                 |
| Pollution Degree                | PD2 - Normally only non-conductive pollution occurs.<br>Temporary conductivity caused by condensation is to be expected.                                 |

\* Refer to standard for details.

| Breaker QT     | Wire Size (IEC)                        | Wire Gauge (UL) | Torque (IEC) | Torque (UL) | Comments                  |
|----------------|----------------------------------------|-----------------|--------------|-------------|---------------------------|
| Main Terminals | 1 mm <sup>2</sup> - 50 mm <sup>2</sup> | 14 – 1/0 AWG    | 4 N.m        | 35 lbf.in   | Pozidriv #2<br>Combi head |

## QT(26) - Series Miniature Circuit Breakers

### Long Code

Example Code: QT----2(26)-DM-U2-250A-----Z---80Vdc-10kA

| Group       | 1        | 2                | 3              | 4        | 5                  | 6          | 7                    | 8                    | 9          | 10         | 11         | 12           | 13             |
|-------------|----------|------------------|----------------|----------|--------------------|------------|----------------------|----------------------|------------|------------|------------|--------------|----------------|
| Requirement | QT Frame | Switch / Neutral | Not applicable | Two pole | 26 mm module width | Dual mount | Medium delay curve 2 | Current rating 250 A | Future use | Shunt trip | Future use | Bridged unit | Not applicable |
| Long Code   | QT       | -                | -              | 2        | (26)               | DM         | U2                   | 250A                 | -          | -          | -          | Z            | -              |

### Ordering Information

| Group 1: Frame Type            | Code               | Description                                     | Comments                                                                                                                                                       |
|--------------------------------|--------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | QT                 | Miniature DC circuit breaker                    | 26 mm wide                                                                                                                                                     |
| Group 2: Switch/Neutral        | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | -                  | Not applicable                                  |                                                                                                                                                                |
| Group 3: Auxiliary             | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | -                  | Not applicable                                  |                                                                                                                                                                |
| Group 4: No of Poles           | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | 1                  | Single pole                                     |                                                                                                                                                                |
|                                | 2                  | Double pole                                     | Two pole or two pole parallel                                                                                                                                  |
|                                | 4                  | Four pole                                       | Four pole / (2pole + 2pole parallel)                                                                                                                           |
| Group 5: Module Width          | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | (26)               | 26 mm module width                              | 26 mm per pole                                                                                                                                                 |
| Group 6: Mounting              | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | DM                 | Dual (DIN & mini rail) mount                    | Dual mount supplied in black only - 57 mm front escutcheon, black body                                                                                         |
| Group 7: Time Delays           | Code               | Description                                     | Instantaneous Trip Point (x In) Comments                                                                                                                       |
|                                | 1                  | Long time delay                                 | 10 - 20 Orange handle                                                                                                                                          |
|                                | U2                 | Medium time delay                               | 7 - 10 White handle                                                                                                                                            |
| Group 8: Current Ratings       | Code / Description |                                                 | Comments                                                                                                                                                       |
|                                | 70 - 250 A         |                                                 | Ratings available vary depending on certification, bridging configuration and voltage.<br>* Other ratings are available as special orders. Check availability. |
| Group 9: Future Use            | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | -                  | Not applicable                                  | For future use                                                                                                                                                 |
| Group 10: Shunt Trip           | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | -                  | Not applicable                                  | If shunt trip is not required                                                                                                                                  |
|                                | V5                 | 48 - 125 Vdc and 96 - 250 Vac                   | If shunt trip option carries no approval - available as a special order                                                                                        |
| Group 11: Future use           | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | -                  | Not applicable                                  | For future use                                                                                                                                                 |
| Group 12: Special Terminations | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | Z                  | Bridged unit (bridged to be fitted by customer) | Recommended busbar sizes refer to page 6 of 6                                                                                                                  |
|                                | ZL                 | Bridged unit (factory fitted)                   | * Refer to note below                                                                                                                                          |
| Group 13: Customer Specific    | Code               | Description                                     | Comments                                                                                                                                                       |
|                                | -                  | Not applicable                                  |                                                                                                                                                                |

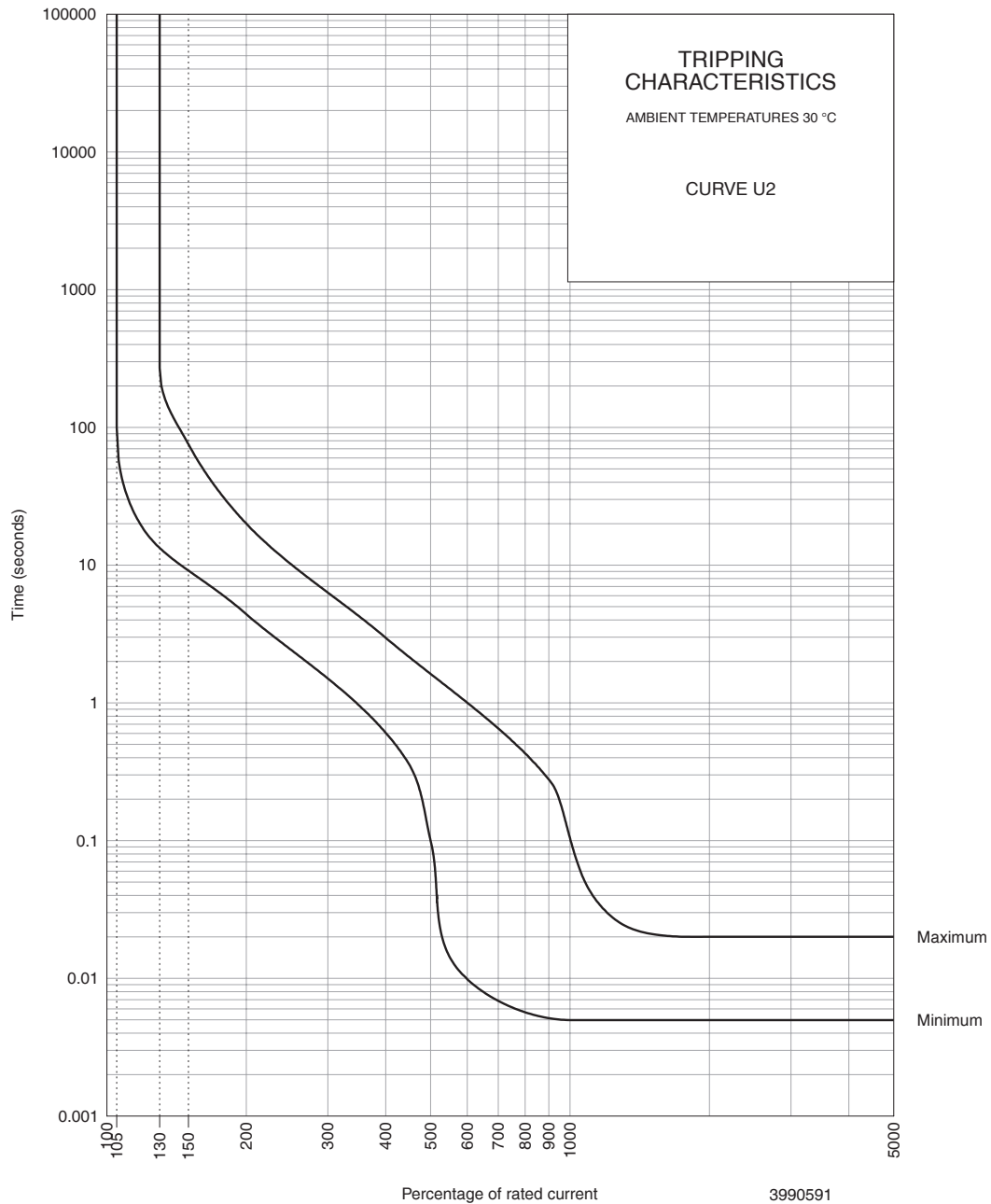
*For options not listed, please contact CBI*

**\* Note:**

Group 12.ZL - As a norm CBI will supply the QT circuit breaker without busbars. Should the customer require the busbar, kindly consult CBI.

## QT(26) - Series Miniature Circuit Breakers

### Time Delay Curve

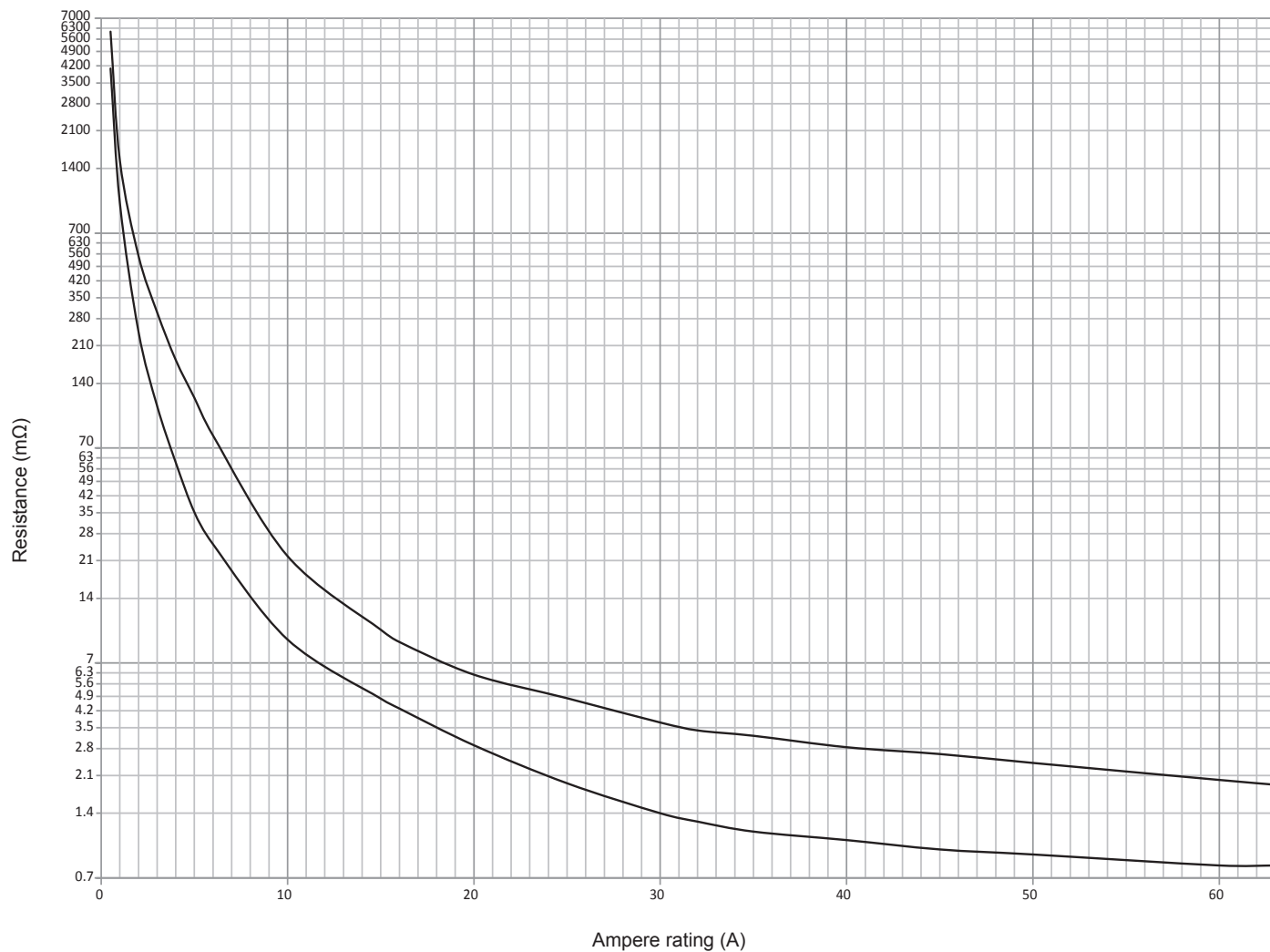


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REV K

| PERCENTAGE OF RATED CURRENT  | 105%    | 130% | 145% | 150% | 200% | 300% | 400% | 500% | 600% | 700%  | 800%  | 900%  | 1000% | 2000% |
|------------------------------|---------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| MINIMUM TRIP TIME IN SECONDS | NO TRIP | 13   | 9.9  | 9.1  | 4.4  | 1.5  | 0.6  | 0.1  | 0.01 | 0.007 | 0.006 | 0.005 | 0.005 | 0.005 |
| MAXIMUM TRIP TIME IN SECONDS | NO TRIP | 270  | 92.3 | 75.5 | 20   | 6.3  | 3    | 1.6  | 1    | 0.65  | 0.43  | 0.28  | 0.1   | 0.02  |

## QT(26) - Series Miniature Circuit Breakers

### Resistance Curve

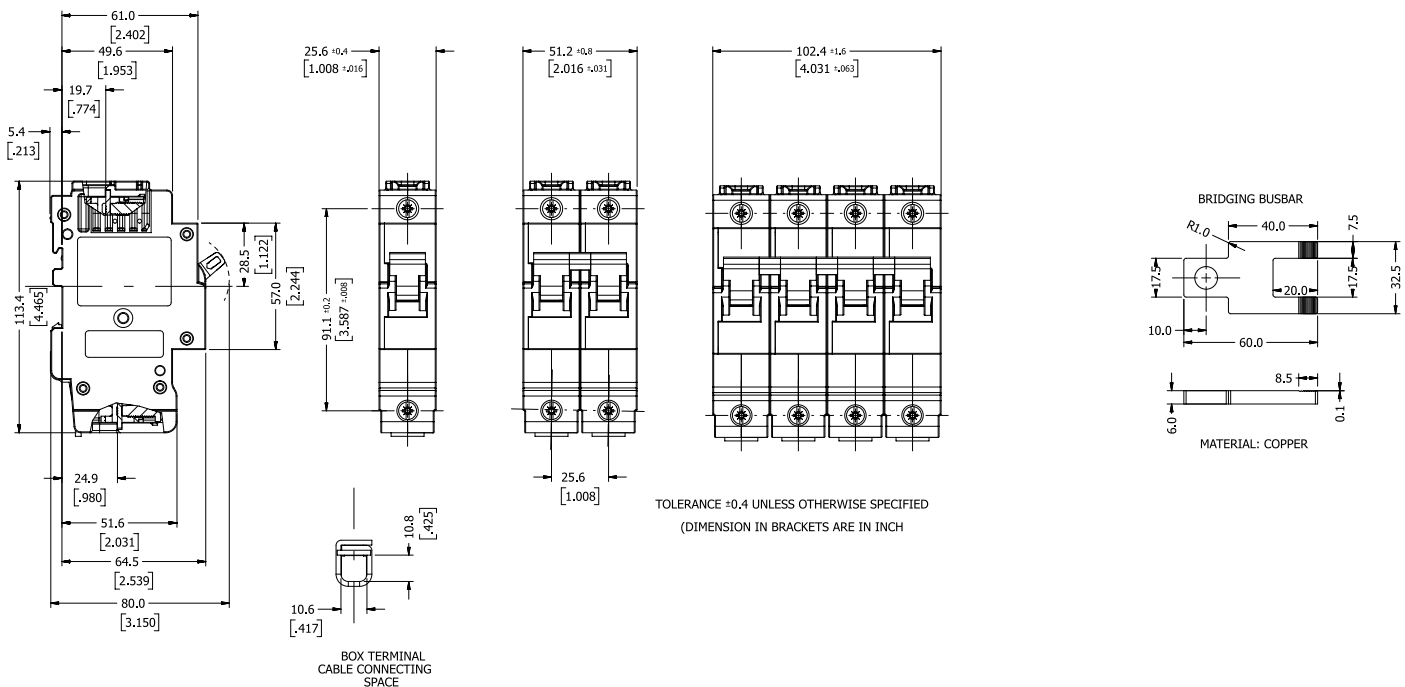


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| Amp RATING   | 0.5  | 1    | 2   | 5   | 6  | 10  | 15  | 20  | 25  | 30  | 32  | 40  | 50  | 60  | 63  |
|--------------|------|------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MINIMUM (mΩ) | 4085 | 970  | 244 | 35  | 25 | 9.0 | 4.8 | 2.9 | 1.9 | 1.4 | 1.3 | 1.1 | 0.9 | 0.8 | 0.8 |
| MAXIMUM (mΩ) | 6065 | 1527 | 550 | 120 | 80 | 22  | 10  | 6.2 | 4.8 | 3.7 | 3.4 | 2.8 | 2.4 | 2.0 | 1.9 |

## QT(26) - Series Miniature Circuit Breakers

### Outline Dimensions: Dual (DIN & mini rail) mount



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#### AUSTRALIA

**CBI-electric: Australia**  
27 Wedgewood Rd, Hallam  
Victoria 3803 Australia  
Tel: +61 3 8752 9300  
Fax: +61 3 9796 5407  
Email: [sales@cbi-electric.com.au](mailto:sales@cbi-electric.com.au)  
Website: [www.cbi-electric.com.au](http://www.cbi-electric.com.au)

#### INDIA

**CBI-electric: Asia**  
A1, Pushpagiri Residency, 1st Cross  
2nd Main, Jyothi Nagar, B.G Road  
Bengaluru 560083, India  
Tel: +91-9880553153  
Email: [salesasia@cbi-electric.com](mailto:salesasia@cbi-electric.com)  
Website: [www.cbibreakers.com](http://www.cbibreakers.com)  
Website: [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com)

#### SOUTH AFRICA

**CBI-electric: low voltage**  
Tripswitch Drive Elandsfontein  
Gauteng South Africa  
Tel: +27 11 928 2000  
Fax: +27 11 392 2354  
Email: [cbi@cbi-electric.com](mailto:cbi@cbi-electric.com)  
[internationalsales@cbi-electric.com](mailto:internationalsales@cbi-electric.com)  
Website: [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com)

#### USA

**CBI-electric: North America**  
35 E. Uwchlan Ave Suite 328  
Exton PA 19341 USA  
Tel: +1 610 524 9949  
Fax: +1 610 524 9945  
E-mail: [info@cbibreakers.com](mailto:info@cbibreakers.com)  
Website: [www.cbibreakers.com](http://www.cbibreakers.com)