

## CTB - Clip-on transformer

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data sheet



In addition to a higher maximum operating voltage ( $U_m < 1.2 \text{ kV}$ ), the plug-on transformer CTB also offers a higher insulation test voltage (6 kV  $U_{\text{eff}}$ , 1 min., 50 Hz), as well as a higher operating temperature range (-5 - 50 °C).

The transformer is equipped with a maintenance-free cage clamp technology. This makes the transformer maintenance-free.

The new transformer type is manufactured in accordance with the technical requirements specified in DIN EN 61869-1/2, VDE 0414-9-1/2 and DIN 42600.

- UL certified; certificate number: 20100426-E336996
- World's first transformer with screwless connection technology
- Innovative, time-saving connection option (front or top) for solid and flexible conductors (max. 4 mm<sup>2</sup> - wire end ferrules can be omitted)
- Shockproof and vibration-proof, high mechanical retention forces
- Maintenance-free, gas-tight connection
- High current carrying capacity
- Therm. Rated continuous current  $I_{\text{cth}}$ : 1.2 x  $I_N$
- Low-voltage transformer for max. operating voltages up to 1.2 kV; use in 690 V mains possible



Type	Power range	Rail 1	Rail 2	Round conductor	Dimensions (W x H x D)
CTB 31.35	50 ... 750 A	30 x 10 mm	25 x 12 mm	25.7 mm	60 x 80.9 x 52 mm
CTB 41.35	75 ... 1000 A	40 x 10 mm	30 x 15 mm	31.8 mm	70 x 91.15 x 52 mm
CTB 51.35	100 ... 1250 A	50 x 12 mm	40 x 30 mm	43.7 mm	85 x 105.25 x 52 mm
CTB 61.35	200 ... 1600 A	63 x 10 mm	50 x 30 mm	43.7 mm	95 x 114.86 x 52 mm
CTB 81.35	400 ... 2000 A	80 x 10 mm	60 x 30 mm	54.7 mm	120 x 134.66 x 52 mm
CTB 101.35	400 ... 2500 A	100 x 10 mm	80 x 30 mm	70.0 mm	130 x 147.49 x 52 mm

PQ Plus also offers the complete CTB transformer series as XCTB for measurements up to 20 kHz, which on the one hand ensures highly accurate transmission up to 20 kHz and on the other hand is thermally designed for use in networks subject to harmonics. The output signals are 1 or 5 A, as usual for inductive transformers according to IEC 61869-2. The power specifications also correspond to the usual values. The transformer can therefore also be used in conventional 50 Hz applications. The frequency transmission behaviour is defined via an additional rating plate.

**Further information on the XCTB is available on request, in our brochure “Transformers” and on our homepage.**

All CTB transformers are also available in an ECTB version, tested according to the MID conformity assessment procedure and approved for billing purposes.

## CTB - Clip-on transformer

## CTB 31.35

Primary current [A]	Secondary current [A]	Load [VA]	Class	Item number
60	5	1.25	1	03.50.0017
100	5	2.5	1	03.50.0002
200	5	5	1	03.50.0005
400	5	10	1	03.50.0010

## CTB 41.35

Primary current [A]	Secondary current [A]	Load [VA]	Class	Item number
125	5	2.5	1	03.50.0053
250	5	5	1	03.50.0056
400	5	5	1	03.50.0058
750	5	5	1	03.50.0063

## CTB 51.35

Primary current [A]	Secondary current [A]	Load [VA]	Class	Item number
125	5	2.5	1	03.50.0101
150	5	2.5	1	03.50.0102
250	5	5	1	03.50.0104
400	5	5	1	03.50.0106

## CTB 61.35

Primary current [A]	Secondary current [A]	Load [VA]	Class	Item number
1000	5	5	1	03.50.0160
1000	1	5	0.5	03.50.2180
1500	5	5	1	03.50.0164
1500	1	5	0.5	03.50.2186

## CTB 81.35

Primary current [A]	Secondary current [A]	Load [VA]	Class	Item number
750	5	5	1	03.50.0193
1000	5	5	1	03.50.0197
1250	5	5	1	03.50.0199
1500	5	5	1	03.50.0201

## CTB 101.35

Primary current [A]	Secondary current [A]	Load [VA]	Class	Item number
400	5	5	1	03.50.0230
1000	5	10	1	03.50.0238
1250	5	5	1	03.50.0239
2000	5	10	1	03.50.0245

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