

CTB - Plug-on current transformer

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data sheet



The CTB plug-on transformer offers not only a higher maximum operating voltage ($U_m < 1.2 \text{ kV}$) also requires a higher Insulation test voltage (6 kV U_{eff} , 1 min., 50 Hz), as well as a higher operating temperature range (-5 ... 50 °C).

The transformer is equipped with maintenance-free cage clamp technology. The transformer is maintenance-free because of this. The new type of current transformer is manufactured in accordance with the technical requirements laid down in DIN EN 61869-1/2, VDE 0414-9-1/2 and DIN 42600.

- UL certified; certificate number: 20100426-E336996
- The world's first current transformer with screwless connection technology
- An innovative, time-saving connection option (front or top) for solid and flexible conductors (max. 4 mm² – wire end ferrules can be omitted)
- Shock-resistant and vibration-proof, high mechanical retention forces
- Maintenance-free, gas-tight connection
- High dielectric strength
- Therm. nominal continuous current I_{th} : 1.2 x I_N
- Low-voltage current transformer for max. operating voltages up to 1.2 kV; can be used in 690 V networks



Type	Current 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 current transformer series as XCTB for measurements of up to 20 kHz. This ensures high accuracy for transmission of up to 20 kHz and is also thermally designed for use in networks subject to harmonic loads. The output signals are 1 or 5 A, as is typical for inductive current transformers in accordance with IEC 61869-2. The power specifications also correspond to the usual values. The transformer can, therefore, also be used in conventional 50 Hz applications. Frequency transmission behaviour is defined via an additional rating plate.

Further information on the XCTB can be provided upon request or found in our "Current transformers" brochure and on our website.

All CTB current transformers are also available in an identical ECTB version, tested in accordance with the MID conformity assessment procedure and approved for billing purposes.

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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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