



CURRENT TRANSFORMER FOR INDOOR INSTALLATION FOR VOLTAGE LEVEL 7.2 kV - 36 kV TYPE CTR



DESCRIPTION

- Current instrument transformer, type CTR is designed as single-ratio and double-ratio ones. Rated primary current for secondary single ratio transformer is 10 to 1200 A, but for secondary double ratio transformer is 2x10 to 2x600 A. Rated secondary current is of 5 A.
- The active parts, primary and secondary windings, are wound round magnetic core. They are cast with synthetic resin, which serves as both insulation and a transformer housing. By application of synthetic resins and high quality magnetic sheets of grain oriented structure, a current transformer of high electrical and mechanical characteristics is manufactured. The current transformer, type CTR is manufactured in three models. The models are marked by letters: B, C and E.
- Features
 - high dielectric accuracy
 - resistance to impulse over-voltage
 - withstanding possibility of high, one second, thermal and dynamic currents
 - high mechanical durability
 - possibility of mounting in any position, which favorably influences upon the accommodation of apparatus and the size of cubicle.

STANDARDS

Current instrument transformers are in accordance with IEC, JUS, ANSI and BS, or some other upon request.

APPLICATION

- They are intended for incorporation in the electrical switchgears for indoor installation up to 36 kV.
- They are used for supplying of ammeters and current circuits of metering, protective and other measuring devices.

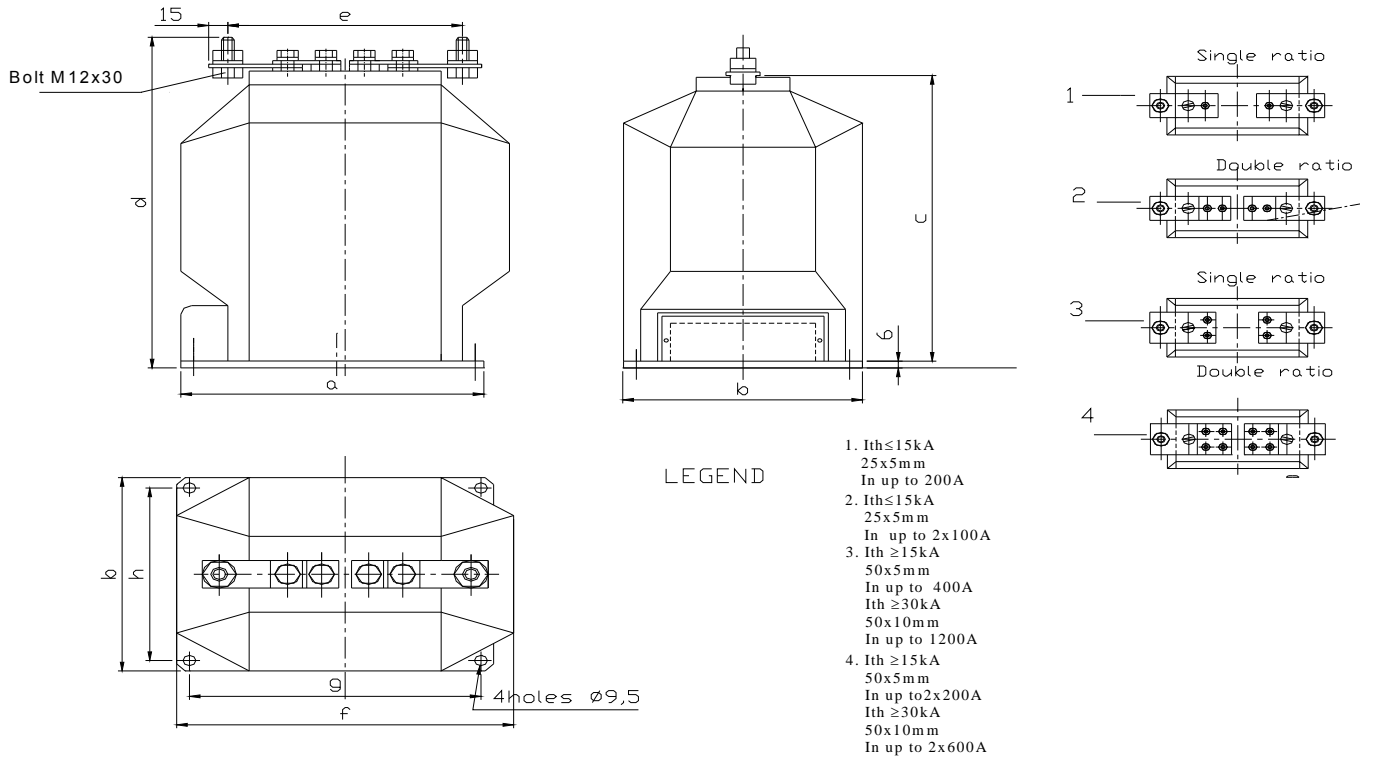
TO SPECIFY FOR AN ORDER

- Rated net voltage
- Rated frequency
- Rated primary and secondary currents
- Rated short-term thermal current (I_{th})
- Rated continuous thermal current (I_{cth})
- Rated dynamic current (I_{dyn})
- Rated output/accuracy class/safety factor (SF) (measurement)
- Rated output/accuracy class/accuracy limiting factor (protection)
- Ambient temperature
- Altitude
- Standard

UPON A SPECIAL REQUEST

- High number of cores
- Secondary double ratio
- Rated secondary current 1A

TECHNICAL CHARACTERISTICS



| Type | Unit | CTR 17 | | | CTR 38 | | |
|--|-----------|----------------------------------|-----|------|--------|-----|-----|
| | | B | C | E | C | E | |
| Highest voltage for equipment | kV | 7,2 | 12 | 17,5 | 24 | 36 | |
| One minute withstand voltage | kV | 20 | 28 | 36 | 50 | 70 | |
| Impulse withstand voltage 1,2/50 μs (peak) | kV | 60 | 75 | 95 | 125 | 170 | |
| Rated primary current for single-ratio transformers | A | 10 - 1200 | | | | | |
| Rated primary current for double-ratio transformers | A | 2 x 10 to 2 x 600 | | | | | |
| Rated continuous thermal current | I_{th} | $1,2 \times I_n$ | | | | | |
| Rated short-time thermal current | I_{sh} | (80-40 I_n) max 60 kA | | | | | |
| Rated dynamic current | I_{din} | $2,5 I_{th}$ (max 150 kA) | | | | | |
| Rated secondary current | A | 5 or 1 | | | | | |
| Number of cores | | 1 | 2 | 3 | 2 | 3 | |
| Measuring cores: rated output accuracy class safety factor | VA | to 30 0,2-0.5-1 FS= 5 ; 10 | | | | | |
| Protection cores: rated output accuracy class accuracy limiting factor | VA | to 30 5P ; 10P 5-10-15-20 | | | | | |
| Mass | kg | 28 | 35 | 46 | 42 | 54 | |
| Dimension | a | mm | 224 | 270 | 345 | 274 | 345 |
| | b | mm | 190 | 190 | 190 | 200 | 200 |
| | c | mm | 280 | 280 | 280 | 332 | 332 |
| | d | mm | 316 | 316 | 316 | 368 | 368 |
| | e | mm | 225 | 255 | 225 | 225 | 225 |
| | f | mm | 204 | 250 | 325 | 254 | 325 |
| | g | mm | 184 | 230 | 305 | 234 | 305 |
| | h | mm | 170 | 170 | 170 | 180 | 180 |

Note:

All data contained herewith are to be considered as information only. The Manufacturer reserves all rights for changes for the purpose of technical improvement. A list of guaranteed values with dimension drawing attached should be submitted upon Customer's request.

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