

Quotation: E-19003-rev4

Reference: PR-19512

CAST RESIN TRANSFORMER

2000 kVA

| | | | | | |
|---------------|----|---------|---------------------------|-------|--------|
| Losses Family | | Special | Installation | | indoor |
| Vector group | | Dyn11 | Type of cooling | | AN |
| Frequency | Hz | 50 | Installation altitude | m.s.l | <1000 |
| Phases | | 3 | Total harmonic distortion | THDv | <5% |

| | HV Winding | LV1 Winding | LV2 Winding |
|--------------------------------------|----------------------------|--------------------------|-------------|
| Nominal rated power at cont. Service | 2000kVA | 2000kVA | |
| Nominal voltage (at no load) | 33kV | 400V | |
| Off-load tapping links | ± 2 x 4,54 % | | |
| Connection | Delta | Star | |
| Insulation class [kV] | 36 | ≤ 1,1 | |
| AC [kv] | 70 | 3 | |
| BIL [kV] | 170 | - | |
| Winding material | Al | Al | |
| Type of winding | Cast in mould under vacuum | Impregnated under vacuum | |

INSULATION AND TEMPERATURE CLASS

Max Ambient temperature °C

40

| | HV Winding | LV1 Winding | LV2 Winding |
|---------------------------------------|------------|-------------|---------------------------------------|
| Insulation temperature class | °C | 155°C (F) | 155°C (F) |
| Temperature rise of windings | K | 100 | 100 |
| Environmental, Climatic, Fire classes | E2-C2-F1 | | (Type Test Certificate CESI A9032391) |

GUARANTEED VALUES AT VOLTAGE RATIO OF:

33000 / 400 V

(Tolerances according to the mentioned Standards)

2000 kVA

| | W | 5000 | Tolerance, Po | % | 15% |
|-------------------------|-------|-------|---------------|---|------|
| No-load loss, Po | W | 5000 | Tolerance, Po | % | 15% |
| No-load current, Io | % | 0,8 | Tolerance, Io | % | 30% |
| Load loss, °C | W | 21000 | Tolerance, °C | % | 15% |
| Impedance voltage, Uk | % | 6 | Tolerance, Uk | % | ±10% |
| Partial discharge value | pC | | | | <10 |
| Sound level Power, Lwa | dB(A) | | | | 78 |

OVERALL DIMENSIONS AND WEIGHTS (Preliminary)

| Length x Width x Height (IP00) | mm | 2100 | 1310 | 2440 | CRT Mass [kg] | 5250 |
|--------------------------------|----|-------------|------|------|---------------|------|
| Length x Width x Height (IP31) | mm | | | | Box Mass [kg] | |
| Rollers distance | mm | 1070 x 1070 | | | | |

PAINTING (subject to availability)

| Magnetic core | RAL | 9005 | Box | RAL |
|---------------|-----|------|-----|-----|
| Frames | RAL | 9005 | | |

According to IEC 60076-11

ACCESSORIES AND TESTS

In the price quoted, is included a set of routine tests at our test room according to IEC 60076-11 standard. For each transformer, a specific Test Report will be issued

| Code Nr. | Description | Qty | Unit price CRT |
|----------|--|-----|-----------------------|
| - | HV terminals | 3 | Included in the price |
| - | LV bus bar terminals | 4 | Included in the price |
| - | Off load tapping links | 3 | Included in the price |
| - | Rating plate | 1 | Included in the price |
| - | Lifting lugs | 4 | Included in the price |
| - | Earth terminals | 2 | Included in the price |
| - | Orientable rollers | 4 | Included in the price |
| 200073 | 3 Pt100 probes wired to terminal box IP65 <=2000 | 1 | Included in the price |
| 220023 | MT200 LITE CONTROL UNIT | 1 | Included in the price |
| CB01414 | +40% kVA. Temporary Increase ventilation bars 50Hz | 1 | Included in the price |
| 190020 | NYLON ROLLER DIA 200 | 4 | Included in the price |
| | Antiseismic transformer AG2 (1000kVA-3150kVA) | | |
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Notes

Antiseismic frame (Horizontal Peak Ground Acc): <=0.2g (light earthquakes)