

Quotation: E-19003-rev4

Reference: PR-19511

**CAST RESIN TRANSFORMER**

**1600 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 | 1600kVA                    | 1600kVA                  |             |
| 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 )

1600 kVA

|                         | W     | 4200  | Tolerance, Po | % | 15%  |
|-------------------------|-------|-------|---------------|---|------|
| No-load loss, Po        | W     | 4200  | Tolerance, Po | % | 15%  |
| No-load current, Io     | %     | 0,9   | Tolerance, Io | % | 30%  |
| Load loss, °C           | W     | 16000 | Tolerance, °C | % | 15%  |
| Impedance voltage, Uk   | %     | 6     | Tolerance, Uk | % | ±10% |
| Partial discharge value | pC    |       |               |   | <10  |
| Sound level Power, Lwa  | dB(A) |       |               |   | 75   |

**OVERALL DIMENSIONS AND WEIGHTS (Preliminary)**

| Length x Width x Height (IP00) | mm | 1950        | 1310 | 2380 | CRT Mass [kg] | 4350 |
|--------------------------------|----|-------------|------|------|---------------|------|
| 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

