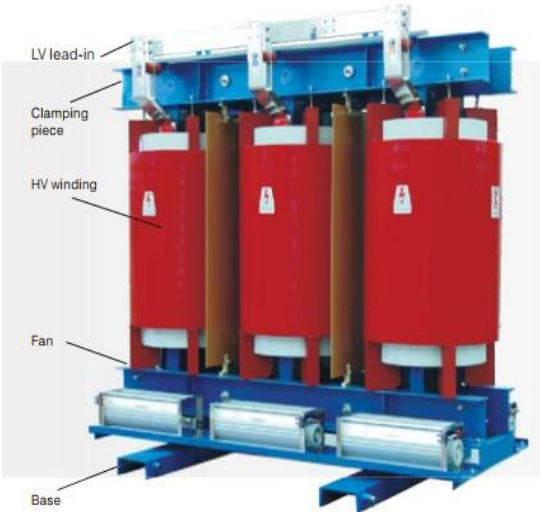
TorTech

30 Years as Australia's transformer specialist

# TECHNICAL DATA SHEET




**Kiosk Enclosure**

***images are of a similar transformer unit.**

## 1. Technical Data

| Item 1 – Dry Type Transformer | | HV Winding 1 | LV Winding 1 |
|---|---|---|---|
| Rated power | kVA | 100 | 100 |
| Rated voltage | kV | 0.415/11/22/33 | 0-1 kV |
| Frequency | Hz | 50 | |
| Off circuit tapping links | % | ±2.5%, +-5% | Nil |
| Connection | | Delta | Star |
| Vector group | | Dyn11 | |
| Insulation level (Maximum BIL/AC) | kV | (145-20)/(3-70) | (145-20)/(3-70) |
| Winding material | | Aluminium/Copper | Aluminium/Copper |
| Type of winding | | Oil Type | Oil Type |
| Standard | | AS 60076-11, AS 2374 | |
| Installation | | Indoor/Outdoor | |
| Degree of protection | | IP00-IP56 | |
| Type of cooling | | ANAF | |
| Installation altitude | | < 1000 a.m.s.l | |
| Climatic/environmental and fire behaviour class | | E2-C2-F_ (0/1) | |
| **Indicative values** | | **Reference Temperature: 75ºC** | |
| Standard tolerances per AS 60076 are applicable to the following values | | | |
| No-load loss | W | 360 | |
| Load loss | W | 1492 | |
| Impedance | % | 4-6% | |
| Efficiency @ 75degC @ cosφ = 1 | 50% /75%/100% Load | 98.18/98.43/98.56 (MEPS COMPLIANT) | |
| Efficiency @ 75degC @ cosφ = 0.8 | 50% /75%/100% Load | 97.74/98.04/98.20 (MEPS COMPLIANT) | |
| **Insulation Class** | | | |
| Max.ambient temperature | ºC | 45 | |
| | | HV winding | LV winding |
| Insulation temperature class | | F (155˚C) / H (180˚C) | |
| Temperature rise | ºC | 100 | |
| **Overall dimensions and weights (Preliminary)** | | | |
| Width x Depth x Height (IP00) | mm | 750 x 500 x 890 | |
| Mass (IP00) | Kg | 590 | |
| NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage. | | | |
| **Accessories** | | | |
| **STANDARD (FOR EA TRANSFORMER)** | | UNITS | |
| HV terminals | | 3 | HV bushing |
| LV terminals | | 4 | LV bushing |
| Rating plate | | 1 | Stainless Steel |

| Routine tests (Included) | | |
|---|---|---|
| **Winding resistance** | Yes | |
| Ratio and phase relationship | Yes | |
| Impedance voltage, short circuit impedance and load loss | Yes | |
| No load loss | Yes | |
| Induced over voltage withstand | Yes | |
| Separate source voltage withstand | Yes | |
| Insulation resistance | Yes | |
| **Type tests (Optional – additional cost)** | | |
| Temperature rise test | Yes | |
| Impulse test | Yes | |
| Noise pressure level test | Yes | |

Drawings issued 1 week after the order.

Project timeline issued 2 weeks after order.

Inspection and Test Plan, Operation and Maintenance manuals submitted 4 weeks prior to delivery.