

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)



CPRI

Report Number: SC16033A

Dated: 18th February, 2016

Description of sample tested (ratings as assigned by the manufacturer)

Tested sample	Distribution Transformer
Type	Outdoor, oil immersed, circular coil
Designation	---
Serial number	250-101521
Rated power	250 kVA
Rated voltage - HV / LV	11000 V / 415 V
Highest voltage of the equipment - U_m	12000 V
Insulation levels	
HV LI / AC	95 kV / 28 kV
LV LI / AC	- / 3 kV
Impedance volt at 75 °C	4.0 %
Number of phases	Three
Rated frequency	50 Hz
Vector group	Dyn 11
Type of cooling	ONAN
Taps	5 (+2.5 % to -7.5% in steps of 2.5%)
Maximum No-load loss at rated voltage at Principal tapping and at rated frequency	500 W
Maximum Load loss at rated current at Principal tapping at 75°C	3100 W
Maximum load loss at 50% of rated load at 75°C	775 W
<u>Winding details</u>	
L.V. winding	Bare copper strip of size 10.5 mm x 2.9 mm with DPC – Six numbers in parallel
H.V. winding	Super enamelled + single paper covered copper conductor of dia 2.38 mm / 2.03 mm (bare)

Documents attached to this report

Oscillogram number(s)	SC16033A.S01, SC16033A.S02, SC16033A.S03, SC16033A.S04, SC16033A.S05, SC16033A.S06, SC16033A.S07, SC16033A.S08 & SC16033A.S09
Photograph number(s)	SC16033A.PB1, SC16033A.PA1 & SC16033A.PA2
Test circuit diagram number(s)	CRTL/SC/TR-07
Drawing numbers	MS/NP/250, MS/OGA/250, MS/SV/250, MS/CCA/250 & MS/TS/250 SHEET 1 OF 1 REV. 00


Test Engineer