



Central Power Research Institute

(Member of STL) SWITCHGEAR TESTING & DEVELOPMENT STATION GOVINDPURA, BHOPAL-462023, INDIA Phone: +91(0)755 2586682 Fax:+ 91(0)755 2587774



Certificate No. T-0011

TEST REPORT

M/s Sun- Tech Engineers,

909/1/C, G.I.D.C., Makarpura,

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S2090701

Vadodara - 10 Gujrat

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L.T. Switchboard

STE 09-10/1285

27th November, 2009

Verification of the short circuit withstand strength

As per clause 8.2.3 of IS: 8623 (Part-I), 1993

STDSST209S0929

Extendable

New

PMCC

One

Nil Nil

Five Two

Nil

One

Two

Three

Test Report Number

Name & address of the Customer

Name & address of the Manufacturer

Particulars of sample tested Condition of sample on Receipt

Туре Designation Serial number Number of samples tested Date(s) of Test(s) CPRI sample code no.

Particulars of tests conducted Test in accordance with Standard/specification Sampling plan Customer's requirement Deviations if any

Name of the Witnessing persons

Customer's representative Other than Customer's representatives Test subcontracted with address of the laboratory

Shri Jagdish Dave Nil None

Not applicable

Documents constituting this report (in words)

Number of sheets Number of oscillograms Number of graphs Number of photos Number of Test circuit diagrams Number of drawings



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AUTHORISED SIGNATORIES

Date :

Sheet 1 of 5

5 DEC 2009

(ANUPAM AWASTHI)

JOINT DIRECTOR



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Test Report Number S2090701

Sheet 2 of 5

Summary of test

Test conducted

Verification of the short circuit withstand strength

Rating for which tested

50 kArms for 1.0 second with initial peak of 105 kA

Documents constituting this report

Oscillogram numbers S2090701.S02, S04

Photograph number

Test circuit diagram number OLTS/TCD-STC-01 & OLTS/TCD-STC-02

P-1

Drawing numbers

STE/TEST/01sheet 1 of 3, STE/TEST/01sheet 2 of 3, STE/TEST/01sheet 3 of 3

TEST ENGINEER



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Test Report Number S2090701

Sheet 3 of 5

Ratings assigned by manufacturer

Test sample

L.T. Switchboard

Туре

Extendable

STE 09-10/1285

Designation

PMCC

415 V

3200 A

660 V

50 Hz

Serial number

Rated operational voltage

Rated current

Rated insulation voltage

Rated frequency

Number of phases

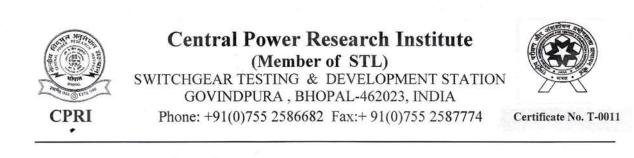
Rated short-time current

Three phase + Neutral

50 kArms for 1.0 second with initial peak of 105 kA

Remark : Nil

TEST ENGINEER



Test Report Number S2090701

Sheet 4 of 5

Verification of the short circuit withstand strength (cl. 8.2.3)

lest conditions:	
Condition of the sample	: New
No. of phases	: Three & Neutral
Source frequency	: 50Hz.
	: See test circuit diagram no. OLTS/TCD-STC-01 for three phase test and OLTS/TCD-STC-02 for single phase test
Safety parameter :	The sample was insulated from earth and connected to neutral of the supply via a fuse of 0.1mm diameter copper wire 50mm long in series with a resistor limiting the fault current to 100A

Test results:

Oscillogram Number	Peak kA	RMS in kA			Duration	Equivalent current in
		lr	ly	lb	(second)	kArms for 1 second
Three phase STC t Test circuit diagram			eak in R - p	hase).		
S2090701.S02	106.40	51.02	51.20	50.98	1.0	51.20
Single phase test o Test circuit diagram			·	BB + VBB.		enter de la companya
S2090701.S04	64.00		30.28		1.0	30.28

Observations

During test : No abnormality.

Remarks

After test : No abnormality. Fine wire fuse intact. All busbars and supports intact. : After short circuit test the sample withstood HV test at 2.5 kVrms for one minute as per standard.

Conclusion : The test results indicate that the sample tested complies with the requirement of cl. 8.2.3 of the standard.

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