



CENTRAL POWER RESEARCH INSTITUTE GOVINDPURA : BHOPAL – 462 023

18 JUL 2023

PROVISIONAL REPORT

Test Report No.CPRIBPLSTNBMISC25T0267

Date of test: 17 July 2025

1. Customer: Expert Electrical and Engineers, Shed No 7 Ground Floor, Pokale Estate, Sinhgad Road, Barangani Mala, Dhayri, Pune, Maharashtra - 411041
2. Sample tested: 415 V, 4000 A, LT Panel
3. Serial Number: EEE/CPRI/STC/25-26/71
4. Sample Code No.: STNBMISC25S0415
5. Type: PCC/MCC/ACDB/DCDB/AMF
- 5.1 Designation: Main LT Panel
6. Drawing Number: EEE/CPRI/BPL/65 Rev.00 Sheet 01 of 03, EEE/CPRI/BPL/65 Rev.00 Sheet 02 of 03, EEE/CPRI/BPL/65 Rev.00 Sheet 03 of 03 (Drawings to be revised and verified)
7. Rating of the Sample:
- 7.1 Rated Voltage : 415 V
- 7.2 Rated Current : 4000 Amp
- 7.3 Rated Insulation voltage : 660 V
- 7.4 No. of phases : Three phase + Neutral
- 7.5 Impulse level if any: 10kVpeak
- 7.6 Material group: II
- 7.7 Pollution degree: Three
- 7.8 Form of separation:- 4B
- 7.9 Degree of protection: IP43
- 7.6 Rated short time current: 65 kArms for 1.0 second with initial peak of 143 kApk
8. Rating for which tested: 65 kArms for 1.0 second with initial peak of 143 kApk
9. Type of test carried out: Verification of short circuit withstand strength test
10. Specification followed: As per customer's requirement and procedure generally followed as per cl.10.11.5.3.3 & 10.11.5.3.5 of IEC:61439-1,2020 & IEC:61439-2, 2020
- 10.1 Customer's requirement: Short circuit withstand strength test to be conducted on main busbars only.
11. Test results:

Oscillogram No.	Short time current in kApk/kArms			Duration in second	Equivalent current for 1.0 second in kArms
	R	Y	B		
CPRIBPLSTNB MISC25T0267S002	66.84	66.51	148.24/65.84	1.0	66.84
(Three phase short circuit withstand strength test conducted on main circuit busbars consisting of HBB+VBB)					
CPRIBPLSTNB MISC25T0267S004	84.12/40.26			1.0	40.26
(Single phase short circuit withstand strength test conducted on neutral & nearest phase of main circuit busbars consisting of HBB+VBB)					

Observations: No abnormality. Fine wire fuse intact. All busbars & supports found intact.

Remarks: After test, the sample withstood HV test at 1.0 kVrms for Sixty second.

TEST ENGINEER

This is only a provisional report. The final report alongwith drawings and other documents will be issued separately within one month from the date of test.

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