

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT



Test Report Number : CPRINOAHV24T0182 Date: 26 March 2024

Name and Address of the Customer : M/s. Powercon Switchgears LLP
Plot No-W379, MIDC Industrial Area
Rabale, Navi Mumbai-400701

Name and Address of the Manufacturer : M/s. Powercon Switchgears LLP
Plot No-W379, MIDC Industrial Area
Rabale, Navi Mumbai-400701

Particulars of Sample tested : 415 V, 250 A L.T. Panel

Type : Indoor & Outdoor DB

Description of test sample : Refer Sheet 2 of 5

Serial Number : PS/24/CPRI/RTL/03

Number of Sample tested : One

Date(s) of Test(s) : 21 & 22 March 2024

CPRI sample code number(s) : NOAHV24S0172

Particulars of test(s) conducted : Refer Sheet 3 of 5

Test in accordance with : IS/IEC 61439 (Part-1): 2011 & IS/IEC 61439(Part-2): 2011

Standard/specification

Sampling Plan : Nil

Customer's Requirement : Nil

Deviations, if any : Nil

Name of the witnessing persons

Customer's Representatives : Mr. Abu Bakkar

Other than Customer's Representatives : Nil

Test subcontracted with address of the laboratory : Nil

Documents constituting this report (in words)

Number of Sheet(s) : Five

Number of Oscillogram(s) : Nil

Number of Graph(s) : Nil


Number of Photograph(s) : One

Number of Test Circuit Diagram(s) : Nil

Number of Drawing(s) : One


(Gangeshwar Singh)
Test Engineer




(M. K. Jaiswal)
Head of Division
Reviewed and Authorized by

ULR-TC5223240HVL0182F
Discipline: Electrical Testing
Group: Transmission Line Equipment
& Accessories

HIGH VOLTAGE LABORATORY
REGIONAL TESTING LABORATORY, PLOT NO. 3A,
INSTITUTIONAL AREA, SECTOR-62, NOIDA-201309, (UP), INDIA.
FAX 0120-2402824 AND PHONE NO. 0120-2402823

Sheet 1 of 5

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DESCRIPTION OF THE SAMPLE TESTED

(As assigned by the manufacturer)

Sample	:	L.T. Panel
Rated voltage (Volts)	:	415
Rated current (Amps)	:	250
Frequency (Hz)	:	50
Insulation Level	:	690 Volts
No. of Phases	:	3 Ph+N
Dimension of Equipment (HxWxD)	:	600 mm x 500 mm x 200 mm


(Gangeshwar Singh)
Test Engineer

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HIGH VOLTAGE LABORATORY

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Sheet 2 of 5

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SUMMARY OF TESTS CONDUCTED

1. Tests conducted : Degree of Protection: IP-55
2. Rating for which tested : 1) Protection against solid foreign body: IP-5X
2) Protection against ingress of water: IP-X5
3. Schedule of tests

Tests Conducted	Clause Numbers	Sheet
Degree of Protection: IP-55	10.3 of IS/IEC 61439 (Part-1): 2011 & IS/IEC 61439 (Part-2): 2011	4 of 5

4. Oscillogram Numbers : Nil
5. Graph Numbers : Nil
6. Photograph Numbers : CPRINOAHV24T0182P01
7. Test Circuit Diagram Numbers. : Nil
8. Drawing Numbers : As given bellow

Drawing Number

The manufacturer has guaranteed that the sample submitted for the test(s) has been manufactured in accordance with the following drawing

Sl. No.	Drawing Number	Sheet Number	Revision Number
1	PS/24/CPRI/RTL/03	1 of 1	--

It is verified that these drawings adequately represent the sample tested. Verification of this drawing by CPRI is limited to dimensional check only wherever possible.


(Gangeshwar Singh)
Test Engineer

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TEST RESULTS

Test conducted : Degree of Protection- IP-55

1).Degree of Protection IP-5X

Date of test : 21 March 2024

Condition of the sample before test : New

Test Details

Test Description	Differential Pressure	Test Duration
The test object is placed inside a closed chamber in which talcum powder (unscented) is maintained in suspension by air current as per standard.	NA	8 Hours

Observations : No Traces of talcum powder was observed inside the sample after IP-5X.


2).Degree of Protection IP –X5

Date of test : 22 March 2024

Test details : The sample was watered from all the directions by means of hose nozzle with a diameter of 6.3mm held at distance of 3 meters, delivery rate being maintained at 12.5 litres per minute as per standard. Test duration was 3.0 minutes

Observation : No traces of water observed inside the sample after IPX5 test.

Conclusion : The sample tested complies with the requirement of clause no. 10.3 of IS/IEC 61439 (Part-1): 2011 & IS/IEC 61439 (Part-2): 2011 for the test conducted.


(Gangeshwar Singh)
Test Engineer

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NOTE

- CPRI is responsible for the test results relate only to the sample(s) tested.
- Publication or reproduction of this Test Report /Test Certificate in any form other than by complete set of the whole Test Report /Test Certificate and in the language written is not permitted without the written consent of CPRI.
- Any Corrections/erasure invalidates the Test Report/Test Certificate
- NABL has Accredited this laboratory as per ISO/IEC17025:2017, vide certificate no.TC-5223 for the tests carried out
- Any anomaly/discrepancy in the Test Report / Test Certificate should be brought to the notice of CPRI within 45 days from the date of issue.



TC-5223


(Gangeshwar Singh)
Test Engineer



-----End of Test Report-----

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Sheet 5 of 5