

CPRI

TEST REPORT



CENTRAL POWER RESEARCH INSTITUTE
(A Govt. of India Society)
Regional Testing Laboratory
3A, Institutional Area, Sector - 62
Noida - 201 309

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

CPRI

Date : 05 September 2023

Test Report Number : CPRINOAHV23T0459
Name and Address of the Customer : M/s Everrise Engineering
7/19-B, Keeranatham, Saravanampatti Post,
Coimbatore, Tamilnadu-641035.
Name and Address of the Manufacturer : M/s Everrise Engineering
7/19-B, Keeranatham, Saravanampatti Post,
Coimbatore, Tamilnadu-641035.
Particulars of Sample tested : 415V, 250A, LT Panel
Type : Outdoor Distribution Box
Description of test sample : Refer Sheet 2 of 5
Serial Number : ERE/72
Number of Sample tested : One
Date(s) of Test(s) : 31 August & 01 September 2023
CPRI sample code number(s) : NOAHV23S0429
Particulars of test(s) conducted : Refer Sheet 3 of 5
Test in accordance with Standard/specification : IS/IEC 61439 (Part-1) : 2011 & IS/IEC 61439 (Part-2) : 2011
Sampling Plan : Nil
Customer's Requirement : Nil
Deviations, if any : Nil
Name of the witnessing persons :
Customer's Representatives : Mr. C. Venkataraman
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

CENTRAL POWER RESEARCH INSTITUTE

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DESCRIPTION OF THE SAMPLE TESTED

(As assigned by the manufacturer)

Sample	:	LT Panel
Rated voltage (Volts)	:	415
Rated current (Amps)	:	250
Frequency (Hz)	:	50
Insulation Level	:	690 V
No. of Phases	:	3 Ph+N
Dimension of Equipment (HxWxD)	:	550 mm x 400 mm x 250 mm

(Gangeshwar Singh)
Test Engineer

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SUMMARY OF TESTS CONDUCTED

1. Tests conducted : Degree of Protection: IP-65
2. Rating for which tested : 1) Protection against solid foreign body : IP-6X
2) Protection against ingress of water : IP-X5
3. Schedule of tests

Tests Conducted	Clause Numbers	Sheet
Degree of Protection : IP-65	10.3 of IS/IEC 61439 (Part-1) : 2011 & IS/IEC 61439 (Part-2) : 2011	4 of 5

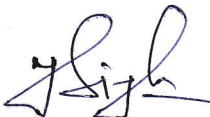
4. Oscillogram Numbers : Nil
5. Graph Numbers : Nil
6. Photograph Numbers : CPRINOAHV23T0459P01
7. Test Circuit Diagram Numbers. : Nil
8. Drawing Numbers : As given bellow

Drawing Numbers

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

Sl. No.	Drawing Number	Sheet Number	Revision Number
1	ERE/72	01 of 01	00

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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Date: 05 September 2023

TEST RESULTS

Test conducted : Degree of Protection- 65

Degree of Protection IP-6X

Date of test : 31 August 2023

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.	200 mm	8 Hours

Observations: No traces of talcum powder was observed inside the sample after IP-6X.


Degree of Protection IP – X5

Date of test : 01 September 2023

Test details: The sample was watered from all the directions by means of hose nozzle with a diameter of 6.3 mm 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.

Observations: 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 tests 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-----

CENTRAL POWER RESEARCH INSTITUTE

TEST REPORT

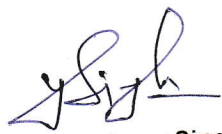


Date: 05 September 2023

Test Report Number: CPRINOAHV23T0459

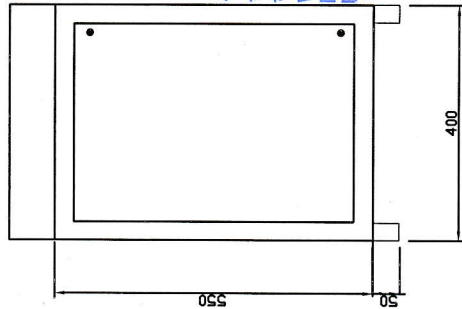


Photograph Number: CPRINOAHV23T0459P01

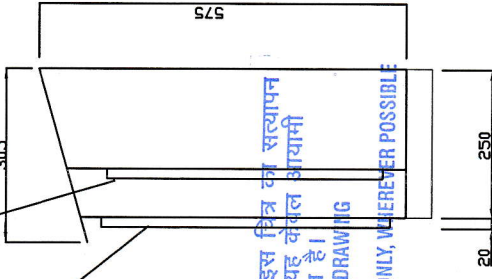

(Gangeshwar Singh)
Test Engineer

INNER DOOR

OUTER DOOR



FRONT VIEW

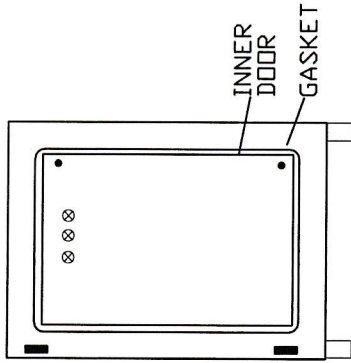
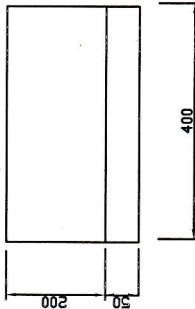


SIDE VIEW

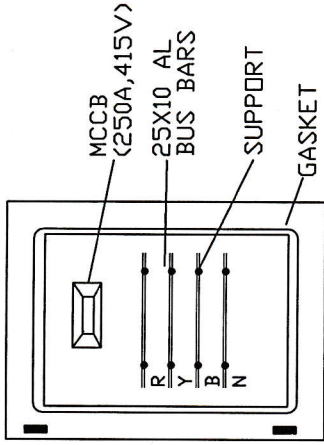
सीपीआरआई द्वारा इस चित्र का सत्यापन
जहाँ भी संभव हो, यह कम्पल आयामी
जांच तक ही सीमित है।
VERIFICATION OF THIS DRAWING
BY CPRI IS LIMITED TO
DIMENSIONAL CHECK ONLY, WHEREVER POSSIBLE

यह चित्र सीपीआरआई से संबंधित है।
This drawing pertains to CPRI
परीक्षण रिपोर्ट सं./Test Report No. CPRI.No.08HV23TGHS9
दिनांक/Date.....08...September...2023

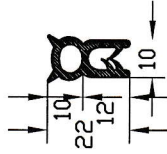
FOUNDATION PLAN



FRONT VIEW WITH OUTER DOOR IN OPEN POSITION



FRONT VIEW WITH DOOR IN OPEN POSITION



CROSS SECTION VIEW OF RUBBER GASKET

BUS BAR SIZE:-

(A) MAIN BUSBAR:-

PHASE :- 25X10 MM AL.

NEUTRAL :- 25X10 MM AL.

TOLERANCE = ± 2%

NOTES:

- [1]- PAINT SHADE ENCL:- SIEMENS GREY (RAL-7032).
- [2]- SHEET ENCL:-2MM THICK CRCA SHEET.
- [3]- CABLE ENTRY:- TOP AND BOTTOM.

RATING: 415V.250A

(Signature)
परिक्षण अभियंता
आरटीएल, सीपीआरआई नोएडा
TEST ENGINEER
RTL, CPRI, NOIDA

PROJECT :		DEGREE OF PROTECTION IP 65		CONSULTANT:	
TITLE		GENERAL ARRANGEMENT DRAWING FOR		SCALE	
SR.NO.		DRAWING NO.		SHEET NO. REV.	
MFD. BY:		EVERRISE ENGINEERING		415V 250A LT PANEL	
		7/19-B, KEERANAATHAM,			
		SARAVANAMPATTI POST, COIMBATORE,			
0	23.08.23	ISSUED FOR TESTING	V C	V C	V C