

TEST REPORT

PRI

Test Report Number

CPRIBPLSTNC21T0342

Date: 07 March 2022

Name and Address of the Customer

M/s. Drive and Control System,

1324, Near Railway Fatak, Opp. Raj Kamal Petrol Pump,

Gondal Road, Rajkot, Gujarat-360 004

Name and Address of the Manufacturer

M/s. Drive and Control System,

1324, Near Railway Fatak, Opp. Raj Kamal Petrol Pump,

Gondal Road, Rajkot, Gujarat-360 004

Particulars of sample tested

415 V, 630A, LT Panel

Type

Main LT Panel

Description of test sample

415 V, 630A, LT Panel

Serial Number

Nil

Number of samples tested Date(s) of Test(s)

One

CPRI Sample code Number(s).

28 December 2021 & 29 December 2021

STNC21S0651

Particulars of tests conducted

Degree of Protection IP-65

Test in accordance with Standard/specification

IEC 60529:2013

Sampling Plan

Nil

Customer's Requirement

Nil

Deviations, if any

Nil

Name of the witnessing persons

Customer's representative

Mr. Shubham Sharma

Other than customer's representative

Nil

Test subcontracted with address of the

None

laboratory

Documents constituting this report (in words)

Number of Sheets

Six

Number of Oscillogram(s)

Nil

Number of Graph(s)

Nil

Number of Photograph(s) Number of Test Circuit Diagram(s)

One Nil

Number of Drawing(s)

One

(K.V. Gangadhar Reddy) **Test Engineer**



(Sarita Dongre) Head of Division Reviewed and Authorized By

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DESCRIPTION OF THE SAMPLE TESTED

(As assigned by the manufacturer)

As per drawing

Sample 415 V, 630A, LT Panel
Designation Main LT DB panel

Rated voltage (Volts) : 415
Rated current (Amps) : 630
Frequency (Hz) : 50
Insulation level (Vrms/kVp) : 660 / -

No. of phases : Three
No. of poles : Four (3P+N)

(K.V. Gangadhar Reddy)
Test Engineer

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Dimensions of the sample (mm)

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SUMMARY OF TESTS CONDUCTED

1. Tests conducted

Degree of Protection IP-65

Rating for which tested

1.1) Protection against access to hazardous parts IP-6X

1.2) Ingress protection against solid particles IP-6X

2) Ingress protection against liquid IP-X5

Schedule of tests

Tests Conducted	Clause Numbers	Sheet
Degree of Protection IP-65	Cl. 12.2, 12.3, 13.3, 13.4, 13.6, 14.2.5 and 14.3 of IEC 60529:2013	5 of 6

4. Oscillogram No(s) Nil

5. **Graph Numbers** Nil

Photograph Numbers 6.

CPRIBPLSTNC21T0342P01

7. **Test Circuit Diagram Numbers** Nil

8. **Drawing Numbers** Refer sheet 4 of 6

(K.V. Gangadhar Reddy) **Test Engineer**

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LIST OF DRAWINGS

Drawing Numbers

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

SI.No.	Drawing Number	Sheet Number	Revision Number
01	DCS/LT/IP/65	01 of 01	R1

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

(K.V. Gangadhar Reddy) Test Engineer

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TEST RESULTS

1) Test conducted

: Degree of Protection IP-6X

Date of test

: 28 December 2021

Condition of sample before test

: New

Test Details

: As per Standard

1.1) The test wire of 1.0 mm diameter was applied on all possible openings with a force of 1N as per standard.

1.2) The test object was placed inside a closed chamber in which talcum powder (unscented) was maintained in suspension by air current as per standard as given below.

Differential Pressure maintained	Duration of the test 8 hours	
200mm of water column		

Observations

The wire of specified diameter did not enter the sample : 1)

2) No traces of powder observed inside the sample after

IP-6X test.

2) Test conducted

Degree of Protection IP -X5

Date of test

: 29 December 2021

Condition of sample before test

: As such after IP 6X test

Test details

: Sample was placed in normal position and test was conducted by spraying the enclosure from all practicable directions with a stream

of water from a standard test nozzle as per standard.

Size of the nozzle used (mm)	Distance of the nozzle from the sample(mtr)	Water Delivery rate(litre/minute)	Duration of the test (minute)
6.3	3,0	12.5	3.0

Observations

No traces of water observed inside the sample after IP-X5 test.

CONCLUSION

The sample tested complies with the requirement of Cl. 12.2, 12.3, 13.3, 13.4, 13.6, 14.2.5

and 14.3 of IEC 60529:2013 for the test(s) conducted.

(K.V. Gangadhar Reddy)

Test Engineer





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NOTE

- a) The Test results relate only to the sample(s) tested.
- b) Publication or reproduction of the 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.
- c) Any Corrections/erasure invalidates the Test Report/Test Certificate.
- d) 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.
- e) All documents constituting the Test report/Test Certificate are stitched together with a continuous silk thread/silk ribbon, the two ends of which have been brought over the front sheet of the Test report / Test Certificate and sealed with a CPRI logo printer paper sticker/embossed.
- f) NABL has accredited this laboratory as per ISO/IEC 17025: 2017, vide Certificate no.TC-5181 for the tests carried out.





TC-5181

(K.V. Gangadhar Reddy)
Test Engineer

.....End of Test Report.....