

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)

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Bangalore - 560 080 (INDIA)

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

CPRI

Test Report Number : CPRI BLREATD20T0058 Date: 13 February 2020

Name and Address of the Customer : M/s. Enpro Industrial Automation Pvt. Ltd.
F-18 Ambattur Industrial Estate, Ambattur,
Chennai – 600 058.

Name and Address of the Manufacturer : M/s. Enpro Industrial Automation Pvt. Ltd.
F-18 Ambattur Industrial Estate, Ambattur,
Chennai – 600 058.

Particulars of sample tested : Distribution Pillar Panel
Type : Outdoor
Description of test sample : Refer Sheet 2 of 5
Serial Number : EIA-01
Number of samples tested : One
Date(s) of Test(s) : 10 February 2020 and 11 February 2020
CPRI Sample code Number(s). : EATDIP20S0026
Particulars of tests conducted : Refer Sheet 3 of 5
Test in accordance with Standard/Specification : IS / IEC 60529: 2001 RA 2019.

Sampling Plan : Not Applicable
Customer's Requirement : 1. Visual observation for entry of dust (IP 5X) Category 2 and water (IP X5).
2. Insulation Resistance Measurement at 500 V DC and Power Frequency High Voltage withstand test at 2.5 kV AC to be applied for one minute between all the busbars/terminals Shorted together and the body of the "Distribution Pillar Panel" Enclosure to be conducted before and after IP 55 Category 2 Test.

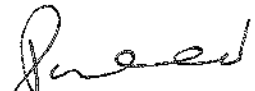
Deviations if any : Nil

Name of the witnessing persons
Customers representative : Mr. B. Chandrasekar, Testing Engineer.
Other than customer's representatives : None
Test subcontracted with address of the laboratory : None

Documents constituting this report (in words)
Number of Sheets : Five
Number of Oscillogram(s) : Nil
Number of Graph(s) : Nil
Number of Photograph(s) : Nil
Number of Test Circuit Diagram(s) : Nil
Number of Drawing(s) : Two


(D. Venkatesh)
Test Engineer




(Dr. P. Chandra Sekhar)
Head of Division
Approved by

ULR-TC5452200EADT0058F
Discipline: Electrical Testing
Group: Environmental Test

ELECTRICAL APPLIANCES TECHNOLOGY DIVISION
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Sheet 1 of 5

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Date: 13 February 2020

DESCRIPTION OF THE SAMPLE TESTED

Sample : Distribution Pillar Panel
Rated Voltage : 415V AC
Rated Current : 500 Amps
Number of Phases : Three, 1 Neutral


(D. Venkatesh)
Test Engineer

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SUMMARY OF TESTS CONDUCTED

1. Tests conducted : IP 55 Category 2 Test
2. Rating for which tested : 415V AC
3. Schedule of tests

Tests Conducted	Clause Numbers	Sheet
IP 5X	13.4	4 of 5
IP X5	14.2.5	4 of 5
Insulation Resistance Test	-	4 of 5
Power Frequency High Voltage Test	-	4 of 5

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

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	Date
1	EIA-DPP-01	Sheet 1 of 2	0	-
2	EIA-DPP-01	Sheet 2 of 2	0	-

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.


(D. Venkatesh)
Test Engineer

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TEST RESULTS

Condition of Sample on the Receipt : New
 Serial Number of sample tested : EIA-01

Sl. No.	PARTICULARS		OBSERVATIONS		
	TESTS CONDUCTED	REFERENCE CLAUSE			
1.0	IP 5X Category 2 Test, as per IS / IEC 60529: 2001 RA 2019 Standard.	Clause No. 13.4 Protection against Ingress of solid foreign objects – Dust Protection Test.	1. Thin layer of dust found observed between inner and outer door bottom plate of "Distribution Pillar Panel" Enclosure. 2. No entry of dust found observed inside the "Distribution Pillar Panel" Enclosure.		
2.0	IP X5 Test as per IS / IEC 60529: 2001 RA 2019 Standard.	Clause No. 14.2.5 Protection against harmful ingress of water – Hose jet of water using nozzle of dia. 6.30 mm, water flow rate 12.5 l/min \pm 5% and 3 m distance.	No entry of water found observed inside the "Distribution Pillar Panel" Enclosure.		
3.0	Electrical Tests Conducted		Before IP 5X Test	After IP 5X Test / Before IP X5 Test	After IP X5 Test
3.1	Insulation Resistance Measurement test at 500 V DC, is applied for one minute between all the busbars/terminals shorted together and the body of the "Distribution Pillar Panel" Enclosure.		>1 G Ω	>1 G Ω	>1 G Ω
3.2	Power Frequency High Voltage withstand test at 2.5 kV AC is applied for one minute between all the shorted terminals/busbars and the body of the "Distribution Pillar Panel" Enclosure.		Withstood	Withstood	Withstood

Conclusion: The sample tested complies with the requirement of Clause 13.4 and 14.2.5 of IS/IEC 60529:2001 RA 2019 for the test conducted.


 (D. Venkatesh)
 Test Engineer

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NOTE

- a) The Test results relate only to the sample(s) tested.
- b) 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.
- c) Any Corrections/erasure invalidates the Test Report/Test Certificate.
- d) NABL has Accredited this laboratory as per ISO/IEC17025:2017, vide certificate no.TC-5452 for the tests carried out.
- e) 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 embossed.


(D. Venkatesh)
Test Engineer