CPRI

TEST REPORT

Central Power Research Institute

(A Govt. of India Society)
P.B.No. 8066, Sadashivanagar Post Office,
Sir C.V. Raman Road,
Bangalore - 560 080 (INDIA)

CENTRAL POWER RESEARCH INSTITUTE

CPRI

TEST REPORT

Test Report Number	:	**CPRIBLREATD26T0093** **Date: 03 April 2026**
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	:	CONTROL & RELAY PANEL
Type	:	Indoor
Description of test sample	:	CONTROL & RELAY PANEL, Suitable for 400kV substation, 110V DC, 230V AC,1 Phase, 50Hz
Serial Number	:	EIA-CRP-01
Number of samples tested	:	One
Date(s) of Test(s)	:	16.03.2026 & 17.03.2026
CPRI Sample code Number(s).	:	EATDIP26S0056
Particulars of tests conducted	:	IP 54 Category 2 test
Test in accordance with Standard/Specification	:	IS/IEC 60529 2001, RA 2019 Standard
Sampling Plan	:	Not Applicable
Customer's Requirement	:	IP 54 Category 2 test
Deviations if any	:	Nil

Name of the witnessing persons

Customers representative	:	Mr. P.Babu-Production Incharge
Other than customer's representatives	:	None
Test subcontracted with address of the laboratory	:	None

Documents constituting this report (in words)

Number of Sheets	:	Four
Number of Oscillogram(s)	:	Nil
Number of Graph(s)	:	Nil
Number of Photograph(s)	:	Six
Number of Test Circuit Diagram(s)	:	Nil
Number of Drawing(s)	:	Four

(D. Venkatesh)
Test Engineer

(Dr. P. Chandra Sekhar)
Group Head
Reviewed and Authorized by

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SUMMARY OF TESTS CONDUCTED

1. Tests conducted : IP 54 Category 2 test
2. Rating for which tested : 110V DC, 230V AC
3. Schedule of tests

Tests Conducted	Clause Numbers	Sheet
IP 5X Category 2	13.4	3 of 4
IP X4	14.2.4(b),	3 of 4
Insulation Resistance Test	14.3	3 of 4
Power Frequency Voltage Withstand Test	14.3	3 of 4

4. Oscillogram Numbers : Nil
5. Graph Numbers : Nil
6. Photograph Numbers : CPRIBLREATD26T0093P01, CPRIBLREATD26T0093P02, CPRIBLREATD26T0093P03, CPRIBLREATD26T0093P04, CPRIBLREATD26T0093P05, CPRIBLREATD26T0093P06.
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
1	EIA-CPRI-CRP	1	0
2	EIA-CPRI-CRP	2	0
3	EIA-CPRI-CRP	3	0
4	EIA-CPRI-CRP	4	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 : Good
Serial Number of sample tested : EIA-CRP-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.**	No entry of dust observed inside **"CONTROL & RELAY PANEL"** enclosure.
2.0	**IP X4 Test as IS/IEC 60529 2001, RA 2019 Standard.**	**Clause No. 14.2.4(b) Protection against harmful ingress of water - Hand held spray nozzle, water flow rate 10 l/min ±5% and at a distance of 0.5m.**	Trace of water observed on front corner bottom plate & rear bottom plate near the door inside **"CONTROL & RELAY PANEL"** enclosure.
3.0	**Electrical Tests Conducted**		**After IP 54 Category 2 test**
3.1	**Insulation Resistance test at 500V DC is applied for one minute between the connected terminals of AC & DC Circuits and body of the "CONTROL & RELAY PANEL" Enclosure. Clause No.14.3**		**>1 GΩ**
3.2	**Power Frequency Voltage withstand test at 1.5 kV AC is applied for one minute between the connected terminals of AC & DC Circuits and body of the "Control & Relay Panel" enclosure. Clause No. 14.3**		Withstood

Conclusion: The sample tested complies with the requirement of Clause (s) 13.4, 14.2.4(b) and 14.3 of IS/IEC 60529 2001, RA 2019 Standard for the test (s) 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 in any form other than by complete set of the whole Test Report and in the language written is not permitted without the written consent of CPRI.

c) Any Corrections/erasure invalidates the Test Report.

d) Any anomaly/discrepancy in the Test Report should be brought to the notice of CPRI within 45 days from the date of issue embossed.

e) NABL has Accredited this laboratory as per ISO/IEC17025:2017, vide certificate no.TC-5452 for the tests carried out.

TC-5452

(D. Venkatesh)
Test Engineer

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

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