

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

TEST REPORT



CPRI

Test Report Number: 437EATDIP17S0185

Dated: 25.09.2017

Name & Address of the Customer : M/s. Enpro Industrial Automation Pvt Ltd.,
F-18, Ambattur Industrial Estate, Ambattur,
Chennai-600058.

Name & Address of the Manufacturer : M/s. Enpro Industrial Automation Pvt Ltd.,
F-18, Ambattur Industrial Estate, Ambattur,
Chennai-600058.

Particulars of sample tested

Condition of the sample on Receipt : New
Type : Indoor
Description of test sample : Control & Relay Panel.
Serial Number : -NIL-
Number of samples tested : One only
Date (s) of Test (s) : 21.09.2017 & 22.09.2017
CPRI sample code no(s) : EATDIP17S0185.

Particulars of tests conducted

Test in accordance with Standard / specification : IP 54 Test Category 2, as per IS/IEC 60529:2001 Standard.
Clause 13.4 and 14.2.4(b).
Sampling Plan : Not applicable
Customer's requirement : 1. IP 54 Test Category 2, as per IS/IEC 60529:2001 Standard.
Clause 13.4 and 14.2.4(b)
2. Insulation Resistance Measurement at 500V DC and Power Frequency High Voltage withstand test at 2.5kV AC to be applied for one minute between all the busbars/terminals shorted together and the body of the "Control & Relay Panel" enclosure and to be conducted before and after IP 54 Test.
Deviations if any : -Nil-

Name of the witnessing persons

Customer's 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 : Three Only
Number of oscillograms : -Nil-
Number of graphs : -Nil-
Number of photos : -Nil-
Number of test circuit diagrams : -Nil-
Number of drawing : Three only. Drawing No. EIA-CPRI-CRP.
Sheet 1 of 3, sheet 2 of 3, sheet 3 of 3.


(D VENKATESH)
Test Engineer




(A.R. RAVIKUMAR)
Head of Division

CENTRAL POWER RESEARCH INSTITUTE



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TEST RESULTS:

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SL. NO.	PARTICULARS		OBSERVATIONS/VALUES OBTAINED		
	TESTS CONDUCTED	REFERENCE CLAUSE			
1.0	IP 5X Test category 2, as per IS/IEC 60529:2001 Standard.	Clause 13.4 Protection against Ingress of Solid Foreign Objects – Dust Protection Test.	Traces of dust found observed on the bottom plate of the "Control & Relay Panel" enclosure.		
2.0	IP X4 Test as per IS/IEC 60529:2001 Standard.	Clause 14.2.4(b) Protection against ingress of water – Hand held spray nozzle, water flow rate 10 Ltrs/min \pm 5% and at a distance of 0.5 m.	No entry of water found observed inside the "Control & Relay Panel" enclosure.		
3.0	Electrical Tests Conducted		Before IP 5X Test	After IP 5X Test / Before X4Test	After IP X4 Test
3.1	Insulation Resistance Measurement test. 500V DC is applied for one minute between all the busbars/terminals shorted together and the body of the "Control & Relay Panel" Enclosure.		21 M Ω	13.6 M Ω	5.67 M Ω
3.2	Power Frequency High Voltage withstand test 2.5 kV AC is applied for one minute between all the busbars/terminals shorted together and the body of the "Control & Relay Panel" enclosure.		Withstood	Withstood	Withstood


Test Engineer

CENTRAL POWER RESEARCH INSTITUTE



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NOTE

- a) The test results relate only to the item(s) tested.
- b) Publication or reproduction of the test report /Certificate in any form other than by complete set of The whole test report /Certificate and in the language written is not permitted without the written consent of CPRI.
- c) Any correction / erasure invalidate this test report / certificate.
- d) NABL has accredited this laboratory as per ISO/IEC 17025: 2005 standard vide certificate No. T-5452 for the tests conducted
- e) Any anomaly / discrepancy in the test report / certificate should be brought to our notice within 45 days from the date of issue.

Test Engineer

CENTRAL POWER RESEARCH INSTITUTE
ELECTRICAL APPLIANCES TECHNOLOGY DIVISION



CPRI

No. EATD/IP/2017

Dated: 24.10.2017

M/s. Enpro Industrial Automation Pvt Ltd.,
F-18, Ambattur Industrial Estate, Ambattur,
Chennai-600058.

KIND ATTENTION: Mr. B. Chandrasekar, Testing Engineer.

SUB : IP 54 CAT-2 Tests Report – Reg.
REF : Customer request form Dated: 21.09.2017

Dear Sir,

IP 54 Category 2 Test, as per IS/IEC 60529:2001 Standard. Clause 13.4 and 14.2.4.
Respectively on,

Sl. No.	TEST REPORT NO. and Date	SAMPLE DESCRIPTION
1.	437EATDIP17S0185 Dated: 25.09.2017	Control & Relay Panel

Any Anomalies / Discrepancies in the report may please be brought to our notice within forty – five days.

Kindly acknowledge the receipt of the test report.

Thanking you,

Yours faithfully,


(D VENKATESH)
Test Engineer

Encl.: As above.