



TC-13518

PART C- TEST RESULT

ULR- TC1351824000000526F
TEST REPORT NO.: HPLI/Test/2407027603
IS/IEC 60529:2001

S. No.	TESTS WITH CLAUSE REFERENCE		SPECIFIED REQUIREMENTS	Covered under our NABL Scope (Yes/No)	RESULTS	Verdict
1.	IP6X Test (As per cl. No. 5 & 13.4, 13.6 IS/IEC 60529:2001)	i)	Tests for protection against access to hazardous parts indicated by the first characteristic numeral. (Test for first characteristic numeral 6X): The access probe of 1.0 mm is pushed against or inserted through any openings of the enclosure with the force $1.0N \pm 10\%$. The test wire of 1.0mm shall not penetrate and adequate clearance shall be kept between the access probe and hazardous parts. (Cl. 12.2 of IS/IEC 60529:2001) The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts	Yes	Satisfactory	Pass
			Tests for protection against solid foreign objects indicated by the first characteristic numeral. (Test for first characteristic numeral 6X Dust-tight): The test is made using a dust chamber incorporating the basic principles. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is $50 \mu m$ and the nominal width of a gap between wires $75 \mu m$. The amount of talcum powder to be used is 2 kg per cubic meter of the test chamber volume. (Cl. 13.4 of IS/IEC 60529:2001) The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.		Satisfactory (No ingress of dust observed inside the enclosure)	Pass

Tested by

Page No.02 of 04

Checked by



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2.	IPX5 Test (As per Clause No.6 & Cl.14.2.5 of IS/IEC 60529:2001)	ii)	Test for second characteristic numeral X5: The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle. - internal diameter of the nozzle: 6.3 mm. -delivery rate: 12.5 l/min $\pm$ 5 %. -water pressure.: to be adjusted to achieve the specified delivery rate. - core of the substantial stream circle of area likely to be sprayed 1 min. approximately 40 mm diameter at 2.5 m distance from nozzle. -Test duration per square metre of enclosure surface area likely to be sprayed: 1 min. -minimum test duration 3 min. -distance from nozzle to enclosure surface between 2.5 m and 3 m. (Cl. 14.2.6 of IS/IEC 60529:2001) After testing, if any water has entered, it shall not- - be sufficient to interfere with the correct operation of the equipment or impair safety. - deposit on insulation parts where it could lead to tracking along the creepage distances. - reach live parts or windings not designed to operate when wet. - accumulate near the cable end or enter the cable if Any.	Yes	Satisfactory (No water observed inside the enclosure.)	Pass

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Page No.03 of 04

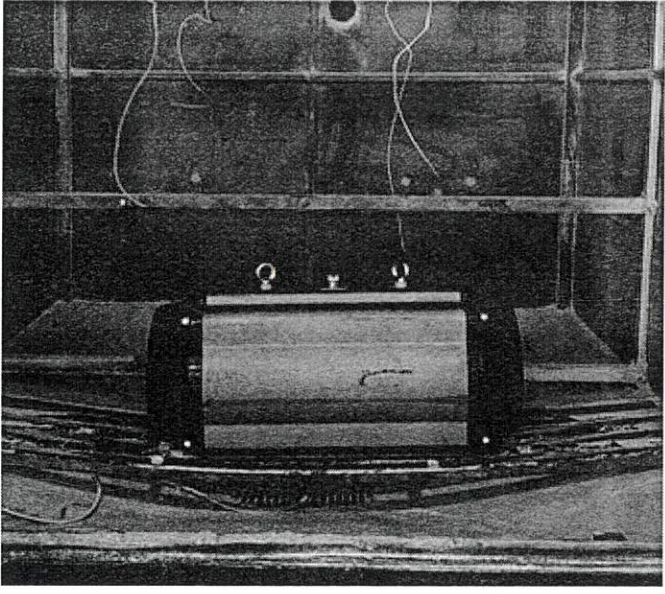
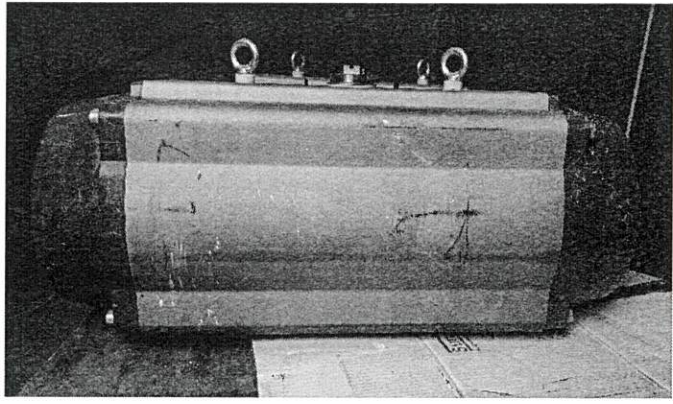
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<u>SAMPLE UNDER TEST (IP6X)</u>	<u>SAMPLE AFTER TEST (IPX5)</u>

PART-D:

Remarks: 1. The Information given in part A of the cover page of the test report are taken from the specification given by the customer.

**** END OF THE TEST REPORT ****

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HI PHYSIX LABORATORY INDIA PVT. LTD.

Approved by

Ashutosh Patil
(Chief Technical Manager)

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