ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION
(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)
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TEST REPORT

NAME AND ADDRESS OF CUSTOMER	REPORT NO. : PLV/06/IP/122 DATE : 20/04/2005	
ROTEX AUTOMATION LIMITED 987/11, GIDC, MAKARPURA, VADODARA – 390 010 GUJARAT (INDIA).	CUSTOMER REF. NO. : NIL	DATE 21/02/2005
	DATE OF SAMPLE RECEIPT 21/02/2005	DATE OF TESTING 21/03/2005 TO 23/03/2005

SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION
FLAMEPROOF SOLENOID JUNCTION BOX WITH HORIZONTAL CABLE ENTRY (ND) Rating : 24V DC, 345mA.	**ERDA sample code no. :** LSWGWO0025914/02. Drg. No. : 082-01-002-006-6 (Rev. 5) Sr. No. : Nil

TEST DETAILS	TEST SPECIFICATION
1.0 IP 68 tests CATEGORY-II	Tests as per IS : 12063 – (1987)

Enclosures : Drg. No. : 082-01-002-006-6 (Rev. 5)

Note : The coil of the sample is sealed, only terminals are accessible. So the results are given by taking Pre & Post tests on the sample.

Remarks : The sample **conform** to the requirement of IP 68 (Category II) tests as per the standard.

Prepared by | Checked by | Approved by

Note : 1. This report relates only to the particular sample received for testing in good condition at ERDA.
2. This report cannot be reproduced in part under any circumstances.
3. Publication of this report requires prior permission in writing from Director, ERDA.
4. Only test asked by the client have been Carried out.

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TEST RESULTS

IP 68 tests : (Protection against ingress of dust and protection against water submersion)

1.0 IP 6X test (Protection against ingress of dust Cl. No. 7.5-II).

1.1 **Before IP 6X test**

The following tests were carried out.

a) Insulation resistance test

The insulation resistance was measured using 500 V DC source between all live parts connected together and the body. The measured value was more than 200 M ohm.

b) High voltage test

The sample was subjected to test voltage of 1.5 kV (RMS) at 50 Hz for one minute between all live parts connected together and the body. The sample withstood the test voltage.

1.2 **IP6X test**

The sample was kept as in normal use inside the test chamber. The required amount of talcum powder was maintained in suspension throughout the test. As sample belongs to category II, the test was carried out without maintaining the pressure inside the enclosure below atmosphere. The test was continued for 8 hrs.

1.2.1 After the test, the following observations were made.

i) No dust was found inside the enclosure.

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1.3 **After IP 6X test**

The following tests were carried out.

a) Insulation resistance using 500 V DC source measured as in Sr. No. 1.1.a) and the measured value was more than 200 M ohm.

b) The high voltage withstand test as in Sr. No. 1.1.b) was done at 80% of the test voltage for one minute. The sample withstood the test voltage.

2.0 **IP X8 Test : (Protection against Water submersion Cl No. 8.8)**

The sample was kept as in normal use. The sample was immersed in the water at a depth between 0.15 m to 1 m below the surface of water. The test was continued for 30 minutes.

2.1 After the test, following observations were made.

i) No water was visibly found inside the enclosure.

2.2 After IP X8 Test

The following tests were carried out.

a) Insulation resistance using 500 V DC source measured as in Sr. No. 1.1.a) and the measured value was more than 200 M ohm.

b) The high voltage withstand test as in Sr. No. 1.1.b) was done at 80% of the test voltage for one minute. The sample withstood the test voltage.

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