



ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX : +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33

Fax : +91 (0265) 2638382

E-mail : erda@erda.org

Web : http://www.erda.org



TEST REPORT

Sheet: 1 of 2

NAME AND ADDRESS OF CUSTOMER MUTECH ENGINEERS 437/2, G.I.D.C., MAKARPURA INDUSTRIAL ESTATE, VADODARA-390 010	TEST REPORT NO. : LIPS/555 DATE : 05/02/2013	
	CUSTOMER REF. NO.:	DATE
	Nil	29/01/2013
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	31/01/2013	31/01/2013
SAMPLE DESCRIPTION CONTROL PANEL BOX Containing: Terminal, Emergency STOP, LED Lamp, Socket	SAMPLE IDENTIFICATION ERDA sample code No. : LSGWO0109272/01 Drg. No.: 2012/ME124-0/1 to 105/1 (Rev.0) (sheet 1 of 1) (Total 1 sheet) Sr.No.: 2012/ME124	
	TEST DETAILS 1.0 IP X5 Test Enclosures: i) Photograph No.: 109272/1 ii) Drg. No.: 2012/ME124-0/1 to 105/1 (Rev.0) (sheet 1 of 1) (Total 1 sheet) Test Witnessed by: Mr. Jignesh Waghela of M/s. Mutech Engineers, Vadodara. Remarks: Sample conforms to the requirement of IP X5 test as per the standard.	
TEST SPECIFICATION IS/IEC 60529:2001		
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 the tests asked for by the customer have been carried out.
 5. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be construed as where the cause has arisen.

1109637



Certificate No. : T-0071

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX : +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33

Fax : +91 (0265) 2638382

E-mail : erda@erda.org

Web : http://www.erda.org



TEST REPORT NO. : LIPS/555

Sheet : 2 of 2

DATE: 05/02/2013

TEST RESULTS

IP X5 Test: (Protection against water jets as per IS/IEC 60529:2001)

1.0 IP X5 Test:

1.1 Before IP X5 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 2.5kV (RMS) (As specified by the customer) at 50 Hz for one minute between all live parts connected together and the body. The unit withstood the test voltage.

1.2 IP X5 Test: (Protection against water jets as per Cl. No. 14.2.5 & 14.3 of IS/IEC 60529:2001)

The sample was kept as in normal use. The unit was subjected to a stream of water from a nozzle of 6.3 mm inner diameter from all practically possible directions at a delivery rate of 12.5 l/min. The distance between nozzle and equipment was maintained approximately 3.0 m. The test was continued for 3 minutes.

1.2.1 After the test following observation was made.

- i) Negligible amount of water (approx. 5 to 10ml) was found inside the enclosure.
- ii) No water was found on live parts.

1.3 After IP X5 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.

[Signature]

Prepared by

[Signature]

Checked by

1109610



ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)
ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX : +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33

Fax : +91 (0265) 2638382

E-mail : erda@erda.org

Web : <http://www.erda.org>



TEST REPORT NO.: LIPS/555

DATE : 05/02/2013

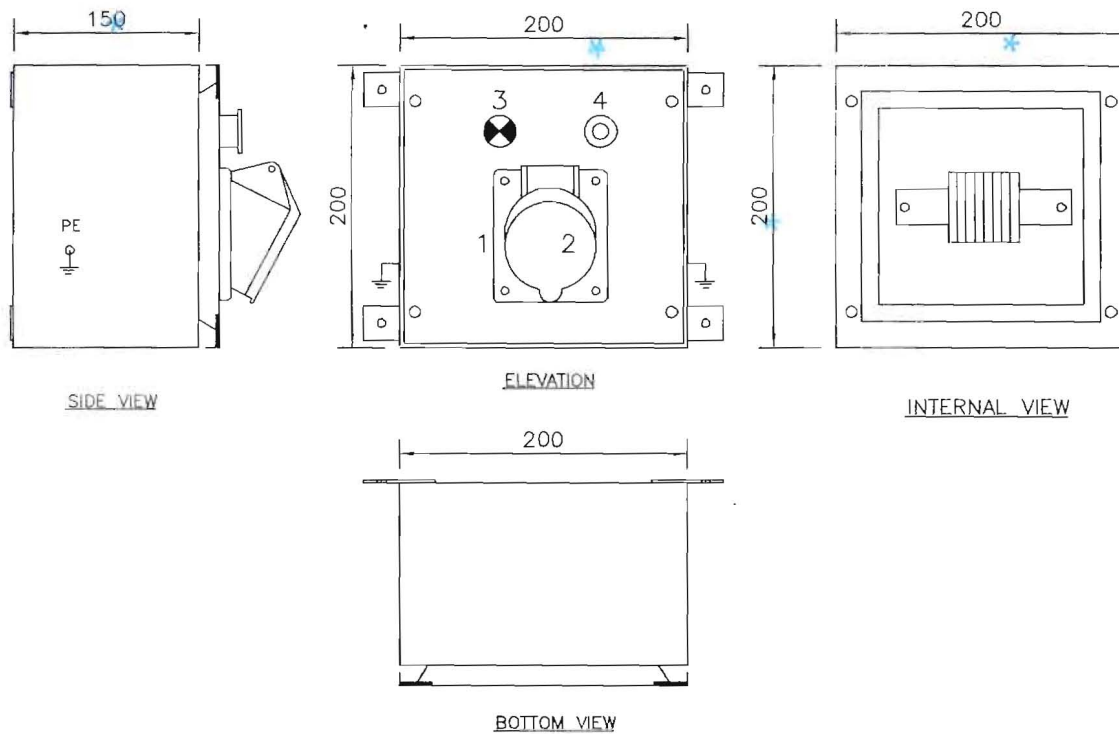


Photograph No.: 109272/1

CONTROL PANEL BOX

Amnosax

1109602



GENERAL SPECIFICATIONS :

ALL DIMENSIONS ARE IN MM
ENCLOSURE TYPE : NO-COMPARTMENTALISED
PROTECTION CLASS : IP 55
INSTALLATION : WALL MOUNTING
CABLE ENTRY : BOTTOM

Test Report No. LAPS/555
Date : 5/2/13
Product : control Panel Box
Verified By : Am-bosax
Verification of this drawing by ERDA is
limited to relevant dimensional checks only.
Verified dimensions are marked with ✓

			CLIENT :	IDMC LTD.	TITLE : CONTROL PANEL BOX	DRN	CKD	APPD.			
			CONSULTANT :	-	GA DRAWING	DBV	MMP	IMP			
			PROJECT :	TCMPF LTD., TIRUVANNAMALAI (TAMILNADU)		SCALE : NTS.					
			P.O/ENQ-NO :	2100005324, Dtd 01-01-13		TOL. : ± 2 mm					
			W.O. NO :	2012/ME124	DWG NO. : 2012/ME124-0/1 to 105/1	REV. : 0					
V. DRN BY	CKD BY	DATE	PANEL SR. NO :	2012/ME124-0/1 to 105	SH. NO. : 1 OF 1	SIGN :					
1	2	3	4	5	6	7	8	9	10	11	12

M MUTECH ENGINEERS
437/2, G.I.D.C. IND. ESTATE, MAKARPURA, BARODA-390010.
imp@mutechengineers.com PH. - 0265-3043696