



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.

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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/556 DATE : 05/02/2013	
	CUSTOMER REF. NO.:	DATE
	2913	29/01/2013
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	29/01/2013	30/01/2013 to 31/01/2013
SAMPLE DESCRIPTION CONTROL PANEL BOX Containing: Terminal, Emergency STOP, LED Lamp, Socket	SAMPLE IDENTIFICATION ERDA sample code No. : LSGWO0109162/01 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 5X Test Enclosures: i) Photograph No.:109162/1 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 5X 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.

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Sheet : 2 of 2

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TEST RESULTS

IP 5X Test: (Protection against ingress of dust s as per IS/IEC 60529:2001)

1.0 IP 5X Test:

1.1 Before IP 5X 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 5X Test: (Protection against ingress of dust as per Cl. No. 13.4 & 13.5.2 of IS/IEC 60529:2001)

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. The pressure inside the enclosure was maintained to 200 mm column of water below atmosphere. The test was continued for 8 hrs.

1.2.1 After the test the following observation was made.

- i) No dust was found inside the enclosure.

1.3 After IP 5X 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.

Amthasa

Prepared by

G/S

Checked by

1109612



Certificate No. : T-0071

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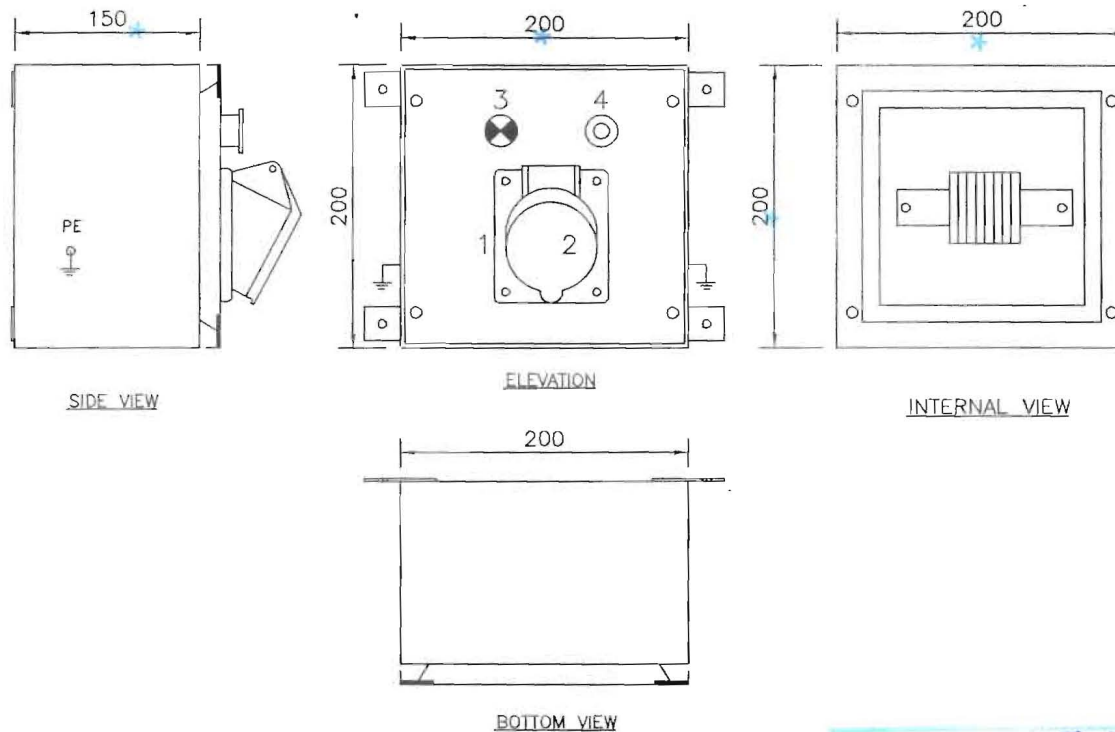


Photograph No.: 109162/1

CONTROL PANEL BOX

Amthasa

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GENERAL SPECIFICATIONS :

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

Test Report No. LDPS/556
Date : 5/2/13
Product : Control Panel Box
Verified By : Anilnasa
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/ENG-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					
			PANEL SR. NO :	2012/ME124-0/1 to 105	SH. NO. : 1 OF 1	SIGN :					
V. DRN BY	CKD BY	DATE									
1	2	3	4	5	6	7	8	9	10	11	12

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