

(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

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NAME AND ADDRESS OF CUSTOMER	TEST REPORT NO.: RP-1415-007282 DATE: 13/06/2014		
CAS ELECTRICAL & AUTOMATION PVT. LTD. A/170, H.B. TOWN,	CUSTOMER REF. NO.	DATED	
ROAD NO5, SODEPUR,	Nil	09/06/2014	
KOLKATA, PIN-700110 WEST BENGAL,	DATE OF SAMPLE RECEIPT	DATE OF TESTING	
INDIA	09/06/2014	10/06/2014 to 12/06/2014	
SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION		
PLC CUM MCC PANEL	ERDA Sample Code No.: ERDA-00048589		
Containing: Terminals	Dec No : ECD/1200 12	MANAID (D. O)	
	Drg. No.: ECP/1299-13/WWP (Rev0) (Sheet 1) & (Sheet 2) (Total 2 sheets)		
TEST DETAILS	Sr. No.: Nil		
TEST DETAILS	TEST SPECIFICATION		

1.0 IP 65 tests

Cl. No. 7.1.12 of IEC 60947-1:2011

Enclosures: i) Photograph No.: a) ERDA-00048589/1

b) ERDA-00048589/2

c) ERDA-00048589/3

ii) Drg. No.: ECP/1299-13/WWP (Rev.-0) (Sheet 1) & (Sheet 2)

(Total 2 sheets)

Test witnessed by: Mr. Akhilesh Tiwari (Project Co-ordinator) of

M/s. CAS Electrical & Automation P. Ltd.

Note: i) Top & bottom joints were sealed with silicon sealant from inside & outside.

ii) Foam gasket was applied on all joints of inner compartment.

Remarks: Sample conforms to the requirement of IP 65 tests as per the standard.

PREPARED BY

Holunki

CHECKED 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.

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TEST RESULTS

<u>IP 65 tests</u>: (<u>Protection against ingress of dust, protection against access to hazardous parts with a wire greater than 1.0 mm and protection against water jets-As per Cl. No. 7.1.12 of IEC 60947-1:2011)</u>

1.0 <u>IP 6X test</u>:

Protection against ingress of dust-As per Cl. No. 13.4 & 13.6 of 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.

After the test, following observation was made:

i) No dust was found inside the enclosure.

1.2 Protection against access to hazardous parts with a wire greater than 1.0 mm-As per Cl. No. 12.2 & 12.3 of IEC 60529:2001

The sample was checked from all practically possible areas with a straight rigid steel wire free from burrs having 1.0 mm diameter up to 100 mm length with a force of 1N.

After the test, following observation was made:

i) The wire did not enter inside the enclosure.

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2.0 <u>IP X5 test</u>: (<u>Protection against water jets-As per Cl. No. 14.2.5 & 14.3 of IEC 60529:2001</u>)

The sample was kept as in normal use. The sample 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 9 minutes & 15 seconds.

After the test, following observation was made:

i) No water was found inside the enclosure.

2.1 After IP X5 test

The following test was carried out.

a) High voltage test

The sample was subjected to test voltage of 2.0kV (RMS) at 50 Hz (As specified by the customer) for one minute between all live parts connected together and the body. The sample withstood the test voltage.

(a) Wdanti

PREPARED BY

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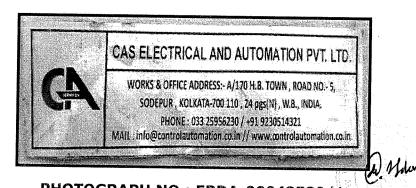
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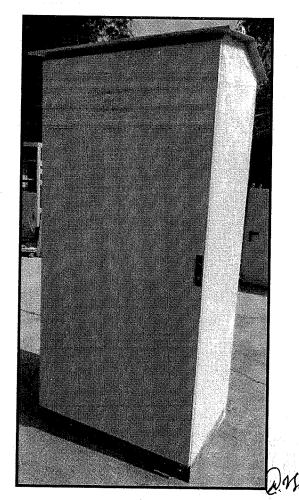


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PHOTOGRAPH NO.: ERDA-00048589/1 NAME PLATE



PHOTOGRAPH NO.: ERDA-00048589/2
PLC CUM MCC PANEL

TE 1463116



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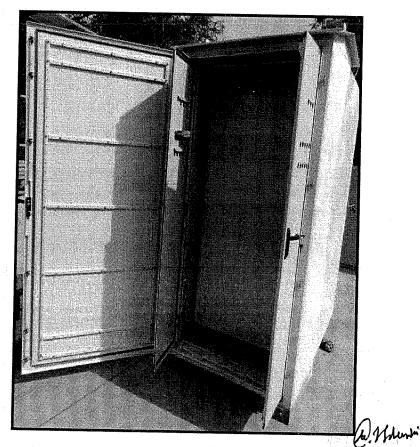
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PHOTOGRAPH NO.: ERDA-00048589/3

PLC CUM MCC PANEL

