

(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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: +91 (0265) 2638382 Fax E-mail : erda@erda.org

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TEST REPORT

SHEET: 1 OF 4

NAME & ADDRESS OF CUSTOMER		TEST REPORT NO.: RP-1516-015951 DATE : 27.07.2015		
MRM PROCOM PVT. LTD. Plot No. 20-21, Industrial Estate, Sector-59, Phase-II, Faridabad-121004, Haryana.		CUSTOMER REF. NO. :	ADD COMMON COMMON	
		DATE OF SAMPLE RECEIPT		
		08.07.2015		
SAMPLE DESCRIPTION		SAMPLE IDENTIFICATION		
CURRENT TRA	ANSFORMER	SR. NO. : 2015070510		
MFD. BY	: MRM PROCOM PVT. LTD.	J. 201307031	J	
RATIO	: 100/5 A	ERDA SAMPLE CODE NO. :		
BURDEN	: 5 VA	ERDA-00098799	78	
CLASS	: 1.0	DRAWING NO. :	A. g.	
H.S.V./I.L.	: 0.66/3 kV	MRM/CT/100-5-1.0/0715/	13 REV00	
FREQUENCY	: 50 Hz.	SHEET NO. 13		
Insulation Class : E		ENCLOSURE :		
TYPE	: RC/BPL	Annexure-I (As per sheet 1 of 1)		

TEST DETAILS & TEST SPECIFICATION ARE AS PER SHEET NO. 2 OF 4.

TEST RESULTS : As per sheet: 3 of 4 to 4 of 4.

REMARKS : The sample **conforms** to the requirements of the mentioned

standard as mentioned in tests no. 1 to 6 on sheet no. : 2 of 4.

Note: 1. This report relates only to the particular sample received in good condition for testing at ERDA.

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4. Only tests asked for by the customer have been carried out.

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APPROVED BY (S.B.PATEL)

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TEST REPORT NO. : RP-1516-015951

SHEET: 2 OF 4

DATE

: 27.07.2015

TEST DETAILS & TEST SPECIFICATION:

Sr.	TESTS	REFERENCE STANDARD		
No.				
1.	Verification of terminal marking and polarity.	Cl. No. 9.2 of IS 2705 (Part 1): 1992		
2.	Power frequency dry withstand test on primary winding.	Cl. No. 9.3 of IS 2705 (Part 1): 1992		
3.	Power frequency dry withstand test on secondary winding.	Cl. No. 9.4 of IS 2705 (Part 1): 1992		
4.	Over voltage inter-turn test.	Cl. No. 9.5 of IS 2705 (Part 1): 1992		
5.	Determination of errors according to the requirements of the appropriate accuracy class.	Cl. No. 7.2.1 of IS 2705 (Part 2): 1992		
6.	Temperature rise test.	Cl. No. 9.7 of IS 2705 (Part 1): 1992		

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SHEET: 3 OF 4

TEST REPORT NO.: RP-1516-015951

DATE : 27.07.2015

TEST RESULTS:

1. Verification of terminal marking and polarity.

(Cl. No. 9.2 of IS 2705 (Part 1): 1992)

Primary winding terminals : P1-P2

Secondary windings terminals: S1-S2

Terminal marking & polarity was found Ok.

Terminal marking was found marked clearly & Indelibly.

REMARK: Conforms

2. Power frequency dry withstand test on primary winding. (Cl. No. 9.3 of IS 2705 (Part 1): 1992)

The power frequency voltage of 3 kV rms was applied between the primary winding terminals and earth for one minute duration. The secondary windings terminals were connected together to earth.

The sample withstood the test voltage without any disruptive discharge.

REMARK: Conforms

3. Power frequency dry withstand test on secondary winding. (Cl. No. 9.4 of IS 2705 (Part 1): 1992)

The power frequency voltage of 3 kV (rms) was applied between the secondary windings terminals (all) connected together and the earth. The primary winding terminals were shorted and connected to the earth. The test voltage was applied for one minute. There was no disruptive discharge observed.

The sample withstood the test voltage satisfactorily.

REMARK: Conforms

4. Over voltage inter-turn test. (Cl. No. 9.5 of IS 2705 (Part 1): 1992)

With the primary winding open circuited, a voltage at rated frequency was applied to the secondary winding terminals (S1-S2) such as to produce a secondary limiting current of rms value equals to rated secondary current (i.e. 5 amp.) for one minute.

The sample withstood the applied voltage satisfactorily for one minute.

REMARK: Conforms

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TEST REPORT NO. : RP-1516-015951

SHEET: 4 OF 4

DATE

: 27.07.2015

5. <u>Determination of errors according to the requirements of the appropriate accuracy class.</u> (Cl. No. 7.2.1 of IS 2705 (Part 2): 1992)

PHASE ANGLE	RATIO ERROR	% OF RATED	RATIO ERROR	PHASE ANGLE
ERROR IN MIN.	IN %	CURRENT	IN %	ERROR IN MIN.

RATIO: 100/5 A, BURDEN: 5 VA, CLASS: 1.0

BURDEN: 100 %	at 0.8 Lag. P. F.		BURDEN: 25	% at U. P. F.
8.56	-0.392	120	0.653	18.46
10.05	-0.435	100	0.650	19.52
32.55	-0.855	20	0.615	30.02
52.14	-1.330	5	0.402	46.02

REMARK: Conforms

6. Temperature rise test. (Cl. No. 9.7 of IS 2705 (Part 1): 1992)

A Continuous rated thermal current equals to 120% (i. e. 100 A*1.2=120 A) of the primary current at rated frequency was circulated in the primary winding of the CT. Rated burden (i.e. 5 VA) was connected to the secondary winding terminals (i.e., S1-S2) of the CT. At steady state, temperature of the body and ambient temperature were recorded. The resistances of secondary winding were measured immediately after shut down and temperature rise calculated.

The temperature rises so obtained were as follows:

Sr. no.	Temperature rise of :	Specified limit for temperature rise test.	Obtained value :
1.	Secondary winding (Resistance method)	70 °C	S1-S2: 9.19 °C
2.	Body (Thermocouple method)	70 °C	3.9 °C
3.	Ambient temperature	40 °C	34.1 °C

REMARK: Conforms

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Annexure-I

TEST REPORT NO.: RP-1516-015951

SHEET: 1 OF 1

DATE

: 27.07.2015

PHOTOGRAPHS OF TEST SAMPLE





AS PER IS: 2705/1992

HSV/IL: 0.66/3 KV ,SR.NO.2015070510

TYPE : RC/BPL , RATIO : 100/5 A

ISULATION: E, VA: 5

FREQUENCY : 50 HZ , CL: (CO)

MFR. BY :MRMPROCOM PVT.LTD (FRD)







