

(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

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TEST REPORT

SHEET: 1 OF 4

MRM PROCOM PVT. LTD. Plot No. 20-21, Industrial Estate, Sector-59, Phase-II, Faridabad-121004, Haryana.		TEST REPORT NO. : RP-1516-015943 DATE : 27.07.2015	
		CUSTOMER REF. NO. :	DATE: 07.07.2015 DATE OF TESTING 09.07.2015 to 25.07.2015
		DATE OF SAMPLE RECEIPT	
		08.07.2015	
SAMPLE DESCRIPTION		SAMPLE IDENTIFICATION	
CURRENT TRANSFORMER		SR. NO. : 2015070406	
MFD. BY	: MRM PROCOM PVT. LTD.	SK. NO 2013070400	
RATIO	: 3200/5 A	ERDA SAMPLE CODE NO.: ERDA-00098792	
BURDEN	: 15 VA		
CLASS	: 0.5	DRAWING NO.: MRM/CT/3200-5-0.5/0715/08 REV00 SHEET NO. 08	
H.S.V./I.L.	: 0.66/3 kV		
FREQUENCY	: 50 Hz.		
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.

PREPARED BY

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CHECKED BY

(S.B.PATEL)

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SHEET: 2 OF 4

TEST REPORT NO.: RP-1516-015943

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-1516-015943

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

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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-1516-015943

SHEET: 4 OF 4

DATE

: 27.07.2015

5. Determination of errors according to the requirements of the appropriate accuracy class. (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: 3200/5 A, BURDEN: 15 VA, CLASS: 0.5

BURDEN: 100 %	at 0.8 Lag. P. F.		BURDEN: 25	% at U. P. F.
1.18	0.089	120	0.111	1.51
1.33	0.090	100	0.107	2.14
2.94	0.071	20	0.110	3.05
5.42	0.031	5	0.087	5.10

REMARK: Conforms

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

A Continuous rated thermal current equals to 120% (i. e. 3200 A*1.2=3840 A) of the primary current at rated frequency was circulated in the primary winding of the CT. Rated burden (i.e. 15 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: 49.28 °C
2.	Body (Thermocouple method)	70 °C	42.2 °C
3.	Ambient temperature	40 °C	29.8 °C

REMARK: Conforms

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never



