



Certificate No. : TC-5389

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



ULR-TC538919000009684F

TEST REPORT

SHEET: 1 OF 4

| | | |
|---|--|--|
| NAME & ADDRESS OF CUSTOMER PLANETRIC POWER LLP MNO-3076 Near Lexicon International School, Pune- Nagar Road, A/P Wagholi, Tal-Haveli, Dist-Pune, Maharashtra-412207 | TEST REPORT NO.: RP-1819-050161 | |
| SAMPLE DESCRIPTION CURRENT TRANSFORMER MFD. BY : PLANETRIC POWER LLP RATIO : 3000/5 A BURDEN : 15 VA CLASS : 5P10 I.L. : 0.66/3.0 kV FREQ : 50 Hz. CLASS OF INSULATION : B | DATE : 26.03.2019 | |
| | CUSTOMER REF. NO. : NIL DATE : 14.03.2019 | |
| | DATE OF SAMPLE RECEIPT 18.03.2019 | DATE OF TESTING 22.03.2019 to 25.03.2019 |
| TEST DETAILS & TEST SPECIFICATION ARE AS PER SHEET NO. 2 OF 4. | SAMPLE IDENTIFICATION SR. NO. : 55/2019 ERDA SAMPLE CODE NO. : ERDA-00307138 | |
| ENCLOSURE : 1) Photographs of Test sample : As per Annexure-I (As per sheet : 1 of 1) 2) DRAWING NO. : 1) LTCT009/2019 2) A4 LTCT008/2019 SHEET 1 OF 1 | | |
| NOTE : Testing was carried out as per standard IS 2705:1992 as per customer's request. | | |
| REMARK : 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 | CHECKED BY | APPROVED BY (S.B. PATEL) |

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

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 tests asked for by the customer have been carried out.

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TC 2744719



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TEST REPORT NO. : RP-1819-050161

DATE : 26.03.2019

SHEET : 2 OF 4

TEST DETAILS & TEST SPECIFICATION:

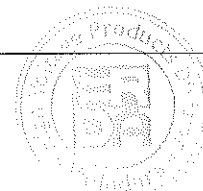
| Sr. No. | TESTS | REFERENCE STANDARD |
|---------|--|--|
| 1. | Verification of terminal marking and polarity. | Cl. No. 9.2 of IS 2705 (Part 1) : 1992 |
| 2. | Power frequency dry withstand test on primary winding. | Cl. No. 9.3 of IS 2705 (Part 1) : 1992 |
| 3. | Power frequency dry withstand test 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 3) : 1992 |
| 6. | Composite error test | Cl. No. 7.2.2 of IS 2705 (Part 3) : 1992 |

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CHECKED BY



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TEST REPORT NO. : RP-1819-050161

DATE : 26.03.2019

SHEET : 3 OF 4

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 (i.e. Copper Foil) & earth, for one minute duration. The secondary winding 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 (i.e. Copper Foil) was 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 secondary winding connected to oscilloscope, a substantially sinusoidal current at 50 Hz frequency & of rms value equal to rated primary current (i.e. 3000 A) was applied for 60 seconds to the primary winding. The sample withstood the test voltage for secondary terminals S1-S2 of secondary side for 60 seconds.

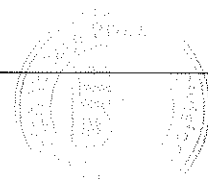
REMARK: Conforms

Signature

PREPARED BY

Signature

CHECKED BY



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TEST REPORT NO. : RP-1819-050161

DATE : 26.03.2019

SHEET : 4 OF 4

5. Determination of errors according to the requirements of the appropriate accuracy class. (Cl. No. 7.2.2 of IS 2705 (Part 3) : 1992)

CLASS: 5P, BURDEN: 15 VA @ 0.8 Lag. P. F.

| RATIO | Secondary winding terminals | % OF RATED CURRENT | RATIO ERROR IN % | PHASE ANGLE ERROR IN MIN. |
|----------|-----------------------------|--------------------|------------------|---------------------------|
| 3000/5 A | S1-S2 | 100 | -0.263 | 2.63 |

REMARK: Conforms

6. Composite error test. (Cl. No. 7.2.2 of IS 2705 (Part 3) : 1992)

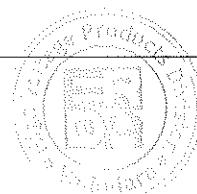
Secondary winding terminals : S1-S2
RATIO : 3000/5 A
Rct@75°C : 1.1736 Ω
SLV Computed : 84.62 V
Excitation Current measured : 34.5 mA
Composite Error : 0.069 %

REMARK: Conforms

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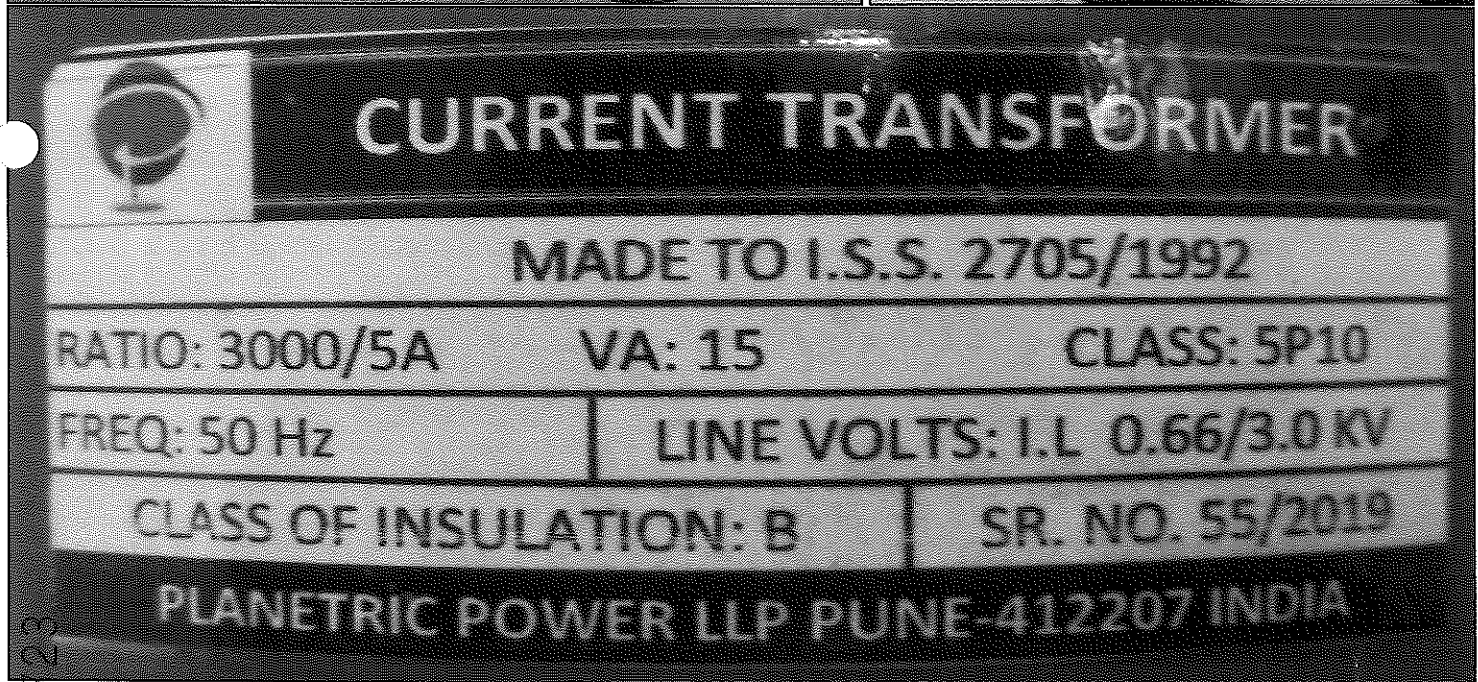
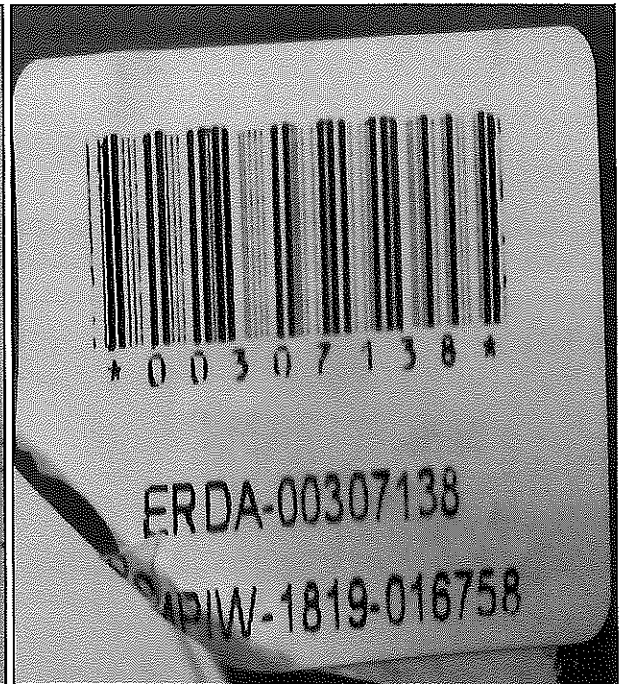
Annexure-I

TEST REPORT NO. : RP-1819-050161

DATE : 26.03.2019

SHEET : 1 OF 1

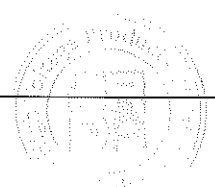
PHOTOGRAPHS OF TEST SAMPLE



TC 2744723

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PREPARED BY

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CHECKED BY



... $\frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \dots$

44

CONFERENCER

MADE TO U.S. 2705/1992

CLASS: 5P10
VA: 15
RATIO: 3000/SA

FREQ: 50 HZ
LIVE VOLTS: 110.66/3.0 KW

CASE OF INSULATION 25 SEP. NO. 55/2019

[illegible]

9150-650-6

26.03.2019

5

1. SR. NO. : 67
2. OR. : 01

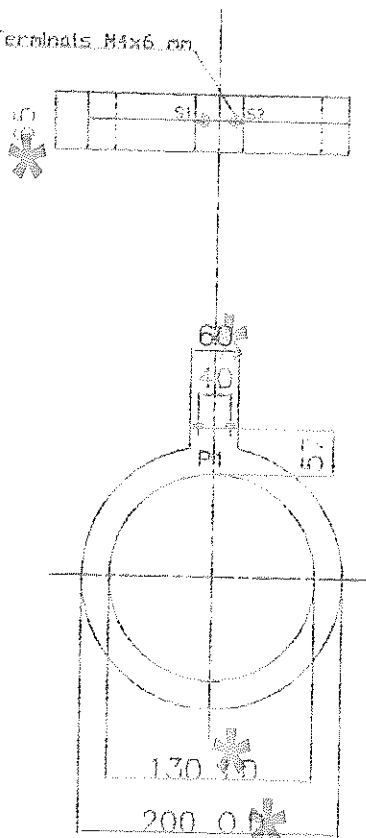
- 200 -

[illegible]

DO NOT SCALE THE DRAWING

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED

Sec. Terminals M4x6 mm



| | |
|------------------------|----------------|
| CT RATIO | 5000/5 |
| BURDEN | 15 VA |
| CLASS | SP10 |
| FREQUENCY | 50 |
| LINE VOLTS | IL 0.66/3.0 kV |
| NO. OF TURNS | 600 |
| CT ID/OD/HI | 130/200/65 |
| TOLERANCE IN DIMENSION | ± 5 MM |

Test Report No. RP-1819-050181
 Date: 28.03.2019
 Product: CT
 Verified By: [Signature]
 Location: [Signature]
 [Signature]
 [Signature]



NOTES:-

- 1. All dimensions are in mm.
- ID-Inner Dia, OD-Out Dia
- HI-Height

| | | | | | |
|-----|------|------------------------------|-------------|----------|------------------|
| REV | ZONE | Added tolerance in dimension | SIGNATURE | DATE | PRINTS ISSUED TO |
| 01 | △ | | [Signature] | 16.03.19 | |

| | | | | |
|------------------|--------|----------|----|-----------|
| CUSTOMER/D/A NO. | SCALE | DRAWN | PM | 09.03.019 |
| USED UN/TYPE | N.T.S. | CHECKED | PM | 09.03.019 |
| | | APPROVED | MM | 09.03.019 |

| | | | |
|-------|---------------------------|----------|-----------------|
| TITLE | RING TYPE EPOXY CT DETAIL | DRG. NO. | A4 LTCT008/2019 |
| | | SHEET NO | 1 OF 1 |

PLANETRIC POWER LLP-412207