



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

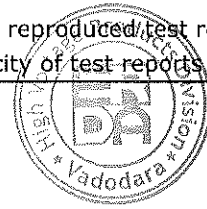
Web : http://www.erda.org



TEST REPORT

SHEET: 1 of 5

| | | | |
|---|--|--|-----------------------------|
| NAME & ADDRESS OF CUSTOMER Planetric Power LLP MNO 3076 (Near Family Super Market), Pune- Nagar Road, A/P Wagholi, Tal-Haveli, Dist-Pune 412207 MAHARASHTRA | TEST REPORT NO. : RP-1819-019971 | | |
| | DATE : 22-08-2018 | | |
| | CUSTOMER REF. NO & DATE | Letter, Dtd.: 17/07/2018 | |
| | DATE OF SAMPLE RECEIPT | DATE OF TESTING | |
| | | 06-08-2018 | 16-08-2018 to 18-08-2018 |
| SAMPLE DESCRIPTION As Per Sheet 2 of 5 | SAMPLE IDENTIFICATION ERDA SAMPLE CODE NO. : ERDA-00271388 SR. NO. : 08/2018 | | |
| TEST DETAILS & TEST SPECIFICATION ARE AS PER SHEET NO.3 OF 5 | | | |
| Enclosures : 1) Photograph of test sample as per Annexure-I 2) Drawing No. :1)A4 LTCT008/2018 2)LTCT008/2018 | | | |
| REMARKS : The sample Conforms to the requirement of the mentioned standard as mentioned in test no. 1 to 5 on sheet no. 3 of 5. | | | |
|  PREPARED BY |  CHECKED BY |  APPROVED BY (SHAILESH PATEL) | |
| Note: <ol style="list-style-type: none"> 1. This report relates only to the particular sample received for testing in good condition 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 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 arised. Caution: ERDA is not responsible for the authenticity of photocopied or reproduced test reports. ERDA provides support to customers for verification of the authenticity of test reports issued by ERDA. | | | |



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TEST REPORT No.: RP-1819-019971

DATE: 22-08-2018

SHEET: 2 of 5

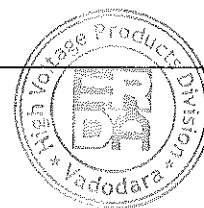
SAMPLE DESCRIPTION :

Current transformer

| | | |
|------------------|---|---------------------|
| MFD. BY | : | PLANETRIC POWER LLP |
| Ratio | : | 2500/5 A |
| Burden | : | 15 VA |
| Class | : | 1.0 |
| ISF | : | <5 |
| IL OR BIL | : | 0.66/3.0 KV |
| Frequency | : | 50 HZ |
| Insulation Class | : | F |

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TEST REPORT No.: RP-1819-019971

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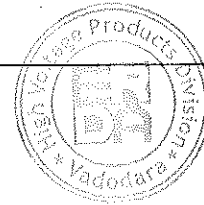
SHEET: 3 of 5

TEST DETAILS & TEST SPECIFICATIONS:

| Sr. No. | TESTS | REFERENCE STANDARDS |
|---------|--|--------------------------------------|
| 1 | Verification of terminal marking and polarity | IS 2705 PART 1 1992 CLAUSE NO. 9.2 |
| 2 | Power frequency dry withstand test on primary winding | IS 2705 PART 1 1992 CLAUSE NO. 9.3 |
| 3 | Power frequency dry withstand test on Secondary winding | IS 2705 PART 1 1992 CLAUSE NO. 9.4 |
| 4 | Over voltage interturn test | IS 2705 PART 1 1992 CLAUSE NO. 9.5 |
| 5 | Determination of errors according to the requirement of the appropriate accuracy class | IS 2705 PART 2 1992 CLAUSE NO. 7.2.1 |

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TEST REPORT No.: RP-1819-019971

DATE: 22-08-2018

SHEET: 4 of 5

TEST RESULTS :

1) Verification of terminal marking and polarity

(IS 2705 PART 1 1992 CLAUSE NO. 9.2)

Primary Winding Terminals : P1-P2

Secondary Windings Terminals : S1-S2

Terminal marking & polarity was found OK and Terminal marking was found marked clearly & Indelibly.

Remarks : Conforms

2) Power frequency dry withstand test on primary winding

(IS 2705 PART 1 1992 CLAUSE NO. 9.3)

The power frequency voltage of 3 kV (rms) was applied between the primary winding terminal (Copper foil) & earth, for one minute duration. The secondary windings terminals was connect together to earth. The sample withstood the test voltage without any disruptive discharge.

Remarks : Conforms

3) Power frequency dry withstand test on Secondary winding

(IS 2705 PART 1 1992 CLAUSE NO. 9.4)

The power frequency voltage of 3 kV (rms) was applied between the secondary winding terminal (all) connected together & earth. The primary winding terminal (Copper foil) 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.

Remarks : Conforms

4) Over voltage interturn test

(IS 2705 PART 1 1992 CLAUSE NO. 9.5)

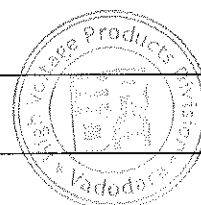
With secondary winding connected to oscilloscope, a substantially sinusoidal current at 50 Hz frequency & of rms value equal to rated primary current (i.e. 2500 A) was applied for 60 seconds to the primary winding. The sample withstood the test voltage for secondary terminals S1-S2 of secondary side for 60 seconds.

Remarks : Conforms

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TEST REPORT No.: RP-1819-019971

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SHEET: 5 of 5

5) Determination of errors according to the requirement of the appropriate accuracy class

(IS 2705 PART 2 1992 CLAUSE NO. 7.2.1)

CURRENT TRANSFORMER:

Ratio : 2500/5

Burden : 15 VA

Class : 1.0

Secondary winding terminal : S1-S2

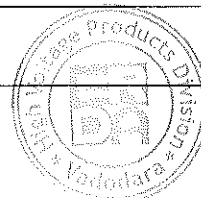
Primary winding terminal : P1-P2

| Phase angle error in min. | Ratio error in % | % of rated current | Ratio error in % | Phase angle error in min. |
|---------------------------------|------------------|-----------------------|----------------------------|------------------------------|
| BURDEN : 15 VA at 0.8 Lag. P.F. | | | BURDEN : 3.75 VA at U.P.F. | |
| 6.68 | -0.311 | 120 | 0.188 | 3.51 |
| 3.44 | 0.087 | 100 | 0.217 | 3.47 |
| 6.61 | 0.100 | 20 | 0.228 | 6.13 |
| 11.25 | 0.029 | 5 | 0.219 | 9.72 |

Remarks : Conforms

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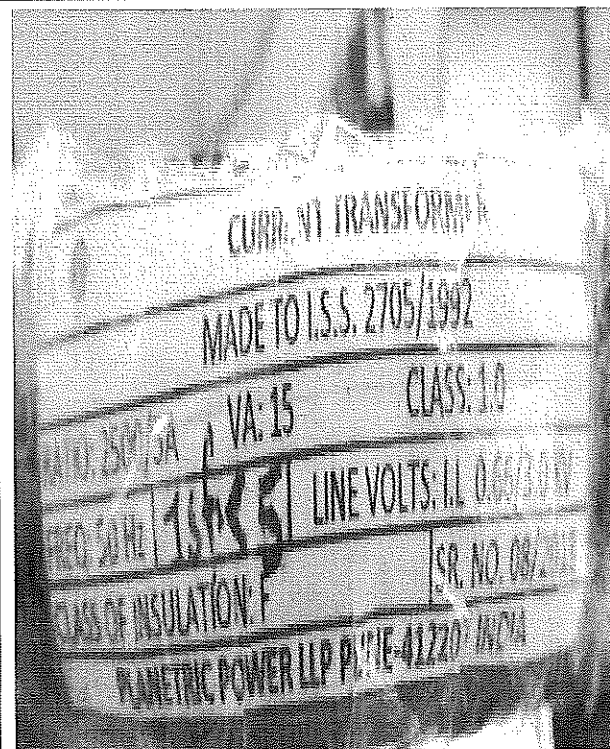
Annexure - I

TEST REPORT No.: RP-1819-019971

DATE: 22-08-2018

SHEET: 1 of 1

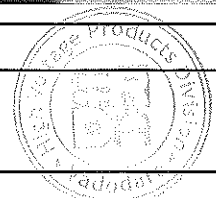
PHOTOGRAPHS OF TEST SAMPLE

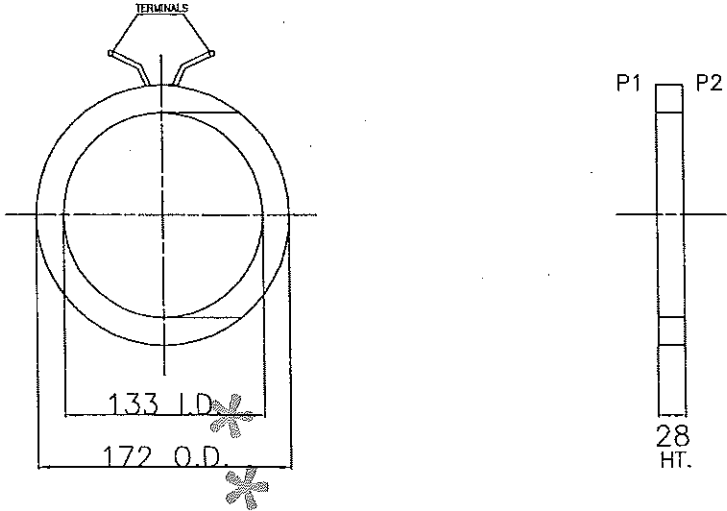
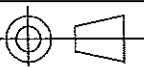
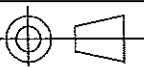
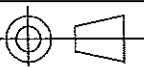


TC 2583465

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CHECKED BY



| | | 4 | | 3 | | 2 | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------|--|--|---|------------------------------------|---|--|-----------|--------|------------------|--|--------------|------------------------------------|-----------|----------|------------|----------------|------------------|------------------|----------------------------|-------|-------------------------------|---|--|--|--|--|-------|----|----------|---------|----|----------|----------|----|----------|
| | | DO NOT SCALE THE DRAWING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IF IN DOUBT PLEASE ASK | | ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ALL INFORMATION CONTAINED IN THIS DOCUMENT IS CONFIDENTIAL AND THE PROPERTY OF PLANETRIC POWER LLP. REPRODUCTION OF THESE IN ANY FORM TO BE DONE WITH THE SPECIFIC PERMISSION OF THE COMPANY | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>CT RATIO</td><td>2500/5</td></tr> <tr><td>BURDEN</td><td>15 VA</td></tr> <tr><td>CLASS</td><td>1.0</td></tr> <tr><td>FREQUENCY</td><td>50</td></tr> <tr><td>LINE VOLTS</td><td>1L 0.66/3.0 KV</td></tr> <tr><td>COND. SIZE</td><td>2//0.914</td></tr> <tr><td>NO. OF TURNS</td><td>500</td></tr> <tr><td>CT ID/OD/HT</td><td>133/172/28</td></tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Test Report No. <u>RP-1819-029971</u> Date : <u>22-08-2018</u> Product : <u>Current Transformer</u> Verified By : <u>[Signature]</u> Verification of this drawing by FPOA is limited to relevant dimensional checks only. Dimensions are marked with 'φ' </div> <p style="margin-top: 10px;">NOTES:- 1. All dimension are in mm. ID-Inner Dia, OD-Over Dia HT-Height</p> | | | | | | | | CT RATIO | 2500/5 | BURDEN | 15 VA | CLASS | 1.0 | FREQUENCY | 50 | LINE VOLTS | 1L 0.66/3.0 KV | COND. SIZE | 2//0.914 | NO. OF TURNS | 500 | CT ID/OD/HT | 133/172/28 | | | | | | | | | | | | | |
| CT RATIO | 2500/5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BURDEN | 15 VA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLASS | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FREQUENCY | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINE VOLTS | 1L 0.66/3.0 KV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COND. SIZE | 2//0.914 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO. OF TURNS | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SIGN & DATE | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>REV</td> <td>ZONE</td> <td colspan="4">BRIEF RECORD</td> <td>SIGNATURE</td> <td>DATE</td> <td>PRINTS ISSUED TO</td> </tr> <tr> <td colspan="2">CUSTOMER/O/A NO.</td> <td colspan="2">SCALE</td> <td colspan="5"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DRAWN</td> <td>PM</td> <td>2.08.018</td> </tr> <tr> <td>CHECKED</td> <td>PM</td> <td>2.08.018</td> </tr> <tr> <td>APPROVED</td> <td>MM</td> <td>2.08.018</td> </tr> </table> </td> </tr> </table> | | | | | | | | REV | ZONE | BRIEF RECORD | | | | SIGNATURE | DATE | PRINTS ISSUED TO | CUSTOMER/O/A NO. | | SCALE | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DRAWN</td> <td>PM</td> <td>2.08.018</td> </tr> <tr> <td>CHECKED</td> <td>PM</td> <td>2.08.018</td> </tr> <tr> <td>APPROVED</td> <td>MM</td> <td>2.08.018</td> </tr> </table> | | | | | DRAWN | PM | 2.08.018 | CHECKED | PM | 2.08.018 | APPROVED | MM | 2.08.018 |
| | | REV | ZONE | BRIEF RECORD | | | | SIGNATURE | DATE | PRINTS ISSUED TO | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CUSTOMER/O/A NO. | | SCALE | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DRAWN</td> <td>PM</td> <td>2.08.018</td> </tr> <tr> <td>CHECKED</td> <td>PM</td> <td>2.08.018</td> </tr> <tr> <td>APPROVED</td> <td>MM</td> <td>2.08.018</td> </tr> </table> | | | | | DRAWN | PM | 2.08.018 | CHECKED | PM | 2.08.018 | APPROVED | MM | 2.08.018 | | | | | | | | | | | | | | | | | | | |
| DRAWN | PM | 2.08.018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHECKED | PM | 2.08.018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROVED | MM | 2.08.018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THIS SUPERSEDES | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>USED ON/TYPE</td> <td colspan="2">  </td> <td colspan="6"> DRG. NO. :- <u>A4 LTCT008/2018</u> </td> </tr> <tr> <td>TITLE</td> <td colspan="2"><u>RING TYPE CT DETAIL</u></td> <td colspan="6">SHEET NO <u>1</u> OF <u>1</u></td> </tr> </table> | | | | | | | | USED ON/TYPE |  | | DRG. NO. :- <u>A4 LTCT008/2018</u> | | | | | | TITLE | <u>RING TYPE CT DETAIL</u> | | SHEET NO <u>1</u> OF <u>1</u> | | | | | | | | | | | | | | |
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| TITLE | <u>RING TYPE CT DETAIL</u> | | SHEET NO <u>1</u> OF <u>1</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THIS IS SUPERSEDED BY | | <u>PLANETRIC POWER LLP-412207</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



CURRENT TRANSFORMER

MADE TO I.S.S: 2705/1992

RATIO: 2500/5A

VA: 15

CLASS: 1.0

FREQ: 50 Hz

LINE VOLTS: I.L 0.66/3.0 KV

ISF: LESS THAN 5

CLASS OF INSULATION: F

SR. NO. 08/2018

PLANETRIC POWER LLP PUNE-412207 INDIA

1. SR. NO. : 8/2018
2. QTY. : 01 NOS.

NOTE:-

Test Report No. RP-1819-019971
Date: 22-08-2018
Product: Current Transformer
Verified By: [Signature]
[Stamp]

| | | | | | |
|---|------|-------------|-------------|--|--|
| DRAWN | | 31.07.18 | | SHEET NO. LTCT008/2018 | |
| CHECKED | | 31.07.18 | | OF | |
| APPROVED | | 31.07.18 | | | |
| CUSTOMER / O/A No. | | | SCALE | RATING & DIAGRAM PLATE | |
| USED ON / TYPE | | | | PLANETRIC POWER LLP, PUNE 412207 (INDIA) | |
| REV. | ZONE | SIGNATURE | DATE | TITLE | |
| | | FROM DT. | SIGN & DATE | | |
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