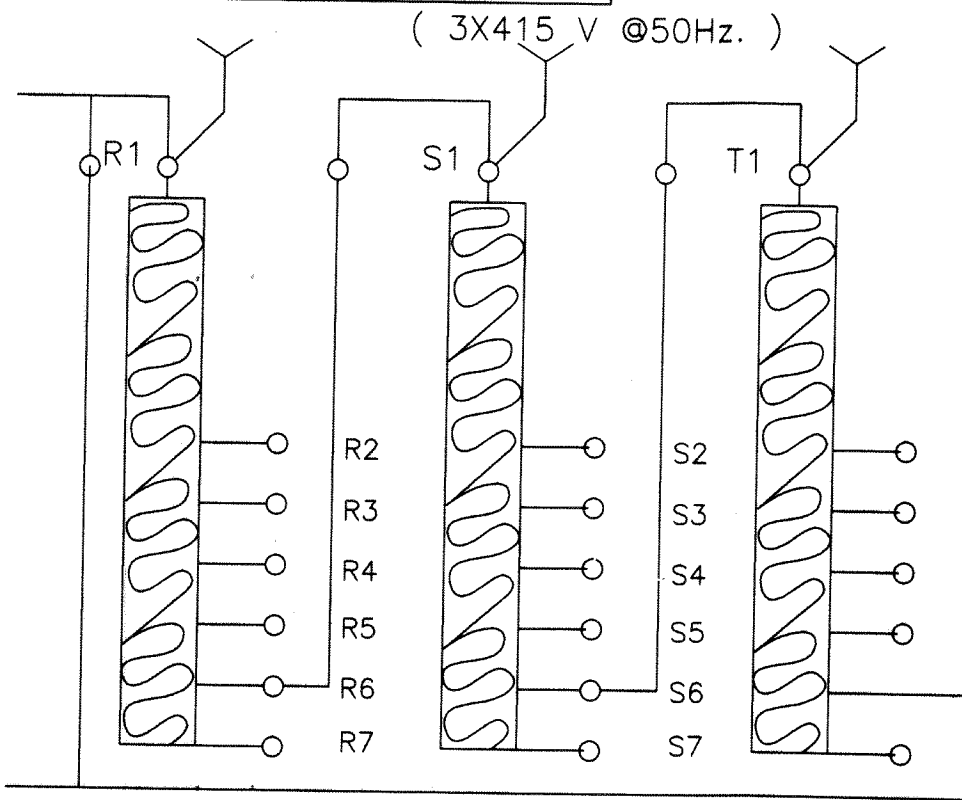


FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm.)

DRGAWING NO. 3 668 08 00431

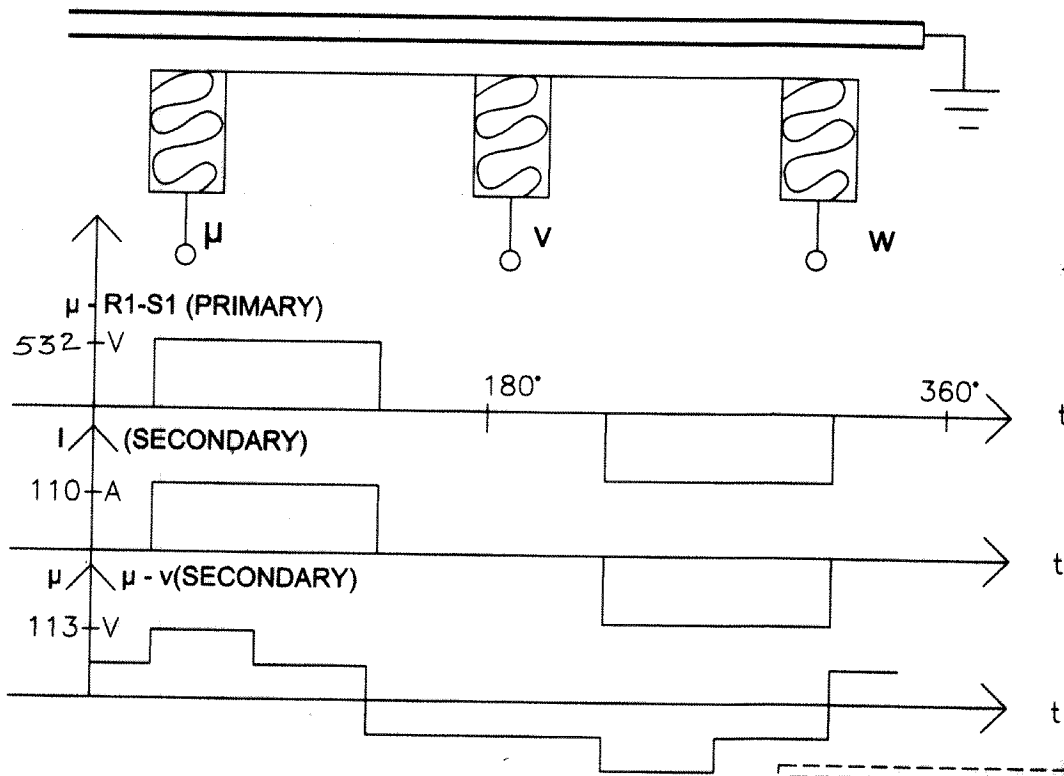


PRIMARY:-

| Tap | U _{eff} , 50Hz |
|-----|-------------------------|
| T2 | 488 |
| T3 | 500 |
| T4 | 510 |
| T5 | 520 |
| T6 | 532 |
| T7 | 548V |

SECONDARY:-

| U _{eff} , 50Hz | I _{eff} |
|-------------------------|------------------|
| 113V | 76.5V |
| 110A | 90A |



1. TECHNICAL DATA:-

| | | |
|--------------------|----|---|
| Primary Voltage | U1 | 3 x 532V |
| Secondary Voltage | U2 | 3 x 113v |
| Secondary Current | I2 | 110A |
| TYPE OF CONNECTION | | PRIMARY(HIGH VOLTAGE)-DELTA :-SECONDARY(LOW VOLTAGE)-STAR |
| KVA RATING | | 12KVA |

| | | |
|---------------------------------|---------------------------|---------------------------------|
| COOLING | AIR NATURAL | 3. DIELECTRIC TEST |
| AMBIENT TEMPERATURE | 0°C TO 80°C | a) SECONDARY 2.5 KV FOR 1MINUTE |
| TOLERANCE ON VOLTAGE RATIO | ± 0.5% | b) PRIMARY 2.5 KV FOR 1 MINUTE |
| PROTECTION CLASS | IP04 | SHORT CIRCUIT VOLTAGE MINIMUM |
| CORROSION PROTECTION | CORROSION FREE STEEL | |
| DISSIPATION (NOMINAL OPERATION) | 470W | |
| INSULATION | CLASS H (AS PER IEC 310) | |
| NOISE LEVEL | <70 DB (A) AT 1M DISTANCE | |
| NO LOAD CURRENT AT 415V | 2.0A (MAX) | |
| TAPPING AT 1/P VOLTAGE 415V | | |

2. ENVIROMENTAL CONDITIONS / EXECUTION :-

| | |
|------------------------------|--|
| CLIMATE CONDITIONS | COASTAL AREAS WITH HUMID SALINE AIR |
| MAXIMUM AIR HUMIDITY | 100% |
| HOT SEASON | EXTREMELY DUSTY |
| MAXIMUM ALTITUDE | 1200m |
| EXECUTION | SUITABLE FOR TRACTION DUTY |
| TYPE OF CONNECTIONS | BOLTS :- ALL CONNECTIONS MATCHING :- 3 ENTRY |
| 3. DIMENSIONS TO BE OBSERVED | CABLES TO BE PROVIDED ON R1,S1 T1 |
| | Lmax X Bmax X H = 450 X 230 X 600 |
| | (SEE ENCLOSED DRG.) |
| MOUNTING POSITION | STANDING |
| WEIGHT | 105 Kg. |

4. TESTING :- AS PER TEST SPEC. CEE/3 668 08 00431/TEST REVISED ON 24-3-04

5. DELIVERY :- TEST CERTIFICATE FOR ROUTINE TEST ALONG WITH CONSIGNMENT

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

INVENTORY NO. 3EHE428058P001 REF. DRG. NO. SIGN. & DATE

कम्प्यूटर ड्राइंग
फाईल नं. CEET2397

| | | |
|------------------------|--|---|
| ADDITIONAL INFORMATION | STATUS OF DRAWING | DISTRIBUTION OF PRINTS |
| | M | OFFICE COPY - 1 SWM - 4 TCX (SWM) - 1 |
| REV. DATE | ALTERED R.C.B. | CHECKED O.P.S. |
| 01 12.2.04. | | APPROVED D.K.T. |
| | POINT 4 UPDATED TO INCLUDE TEST SPECIFICATION. | |
| | VOLTAGE MADE 2.5 KV FROM 1.5 KV FOR PRIMARY for Dielectric test. | |

| | | | | | |
|---|---------------------------------------|------------------------------------|-----------------------------|--|---|
| उत्पाद का प्रकार या आइटम/परिचयना का नाम | | AUX. CONVERTER FOR WAG9/WAP 5 LOCO | | | |
| TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT | | M/S CLW CHITTARANJAN | | | |
| डी.सच.ई.सल. | भारत हेवी इलेक्ट्रिकल्स लिमिटेड | ड्राफ्ट | नाम /NAME | हस्ता/SIGN. | दि./DATE |
| | गोपाल | | R.C.B. | -Sd- | 13.09.03 |
| | BHARAT HEAVY ELECTRICALS LTD. | | O.P.S. | -Sd- | 15.09.03 |
| | BHOPAL | | D.K.T. | -Sd- | 15.09.03 |
| विभाग DEPT. CEE | उत्प.दल.नाम की श्रेणी UNTO. DIMS. GR. | उत्पात SCALE | भार कि. ग्रा. WEIGHT (K.G.) | उत्प. ड्राईंग का संदर्भ REF. TO ASSY. | मद संख्या मद संख्या NO. OF ITEM NO. OF ITEM |
| कोड CODE. 407 | REF CG 06503 | NTS | 105 | | |
| शीर्षक/TITLE | | 3 668 08 00431 | | पुन./REV. 03 | |
| PURCHASE SPECIFICATION | | 415V/76.5V, 3-PH TRANSFORMER | | शीट नं./SHT.NO 02 शीटों की सं./NO.OF.SHT. 02 | |

| | | | |
|-------------------------|------------------|---|------------|
| REV. DATE | ALTERED | REV. DATE | ALTERED |
| 03 5-4-05 | CHECKED APPROVED | 02 24-3-04 | CKD. APPD. |
| NOTE 1 ADDED ON SHT.01. | | POINT 4 UPDATED BASED ON RDSO DISCUSSION. | |