



Form No. 2038

उत्पाद मानक

परिणामित्र

शाप/अभि. निर्देश

PRODUCT STANDARD

TRANSFORMER

SHOP/ENGG INSTRUCITONS

TR 20158T

1 पृष्ठों में 1

Page 1 of 2

RFF

COMP. drg

TITLE - SPECIFICATION FOR R.T.D SCHEME WITH DIGITAL INDICATOR (ROTI)**MATERIAL CODE:-BP9036057302
STYLE:-605730****APPLICATION**

System shall be used to measure top oil temperature of the oil immersed transformer/reactor at remote point by D.C. current mode. R.T.D. sensor shall be electrically connected to remote oil temperature indicator, using current converter unit with built up power supply unit. Inter-connection of the instrument shall be done as per Drg.44996200512. Scheme shall consist of the following items.

1. R.T.D SENSOR**QTY. 1 NO.**

R.T.D Sensor with three or five wire system shall be suitable for outdoor application .It shall have one pt.100 ohms resistance (BS 1904/DIN IEC 751 with class B tolerance) assembled in a pocket. Sensor shall be generally as per Drg. 44996200148 meeting the following requirement.

Stem Dia. - 6.35 mm min.
Stem Length - 155 mm min.
Fixing thread - 3/4 " B.S.P.
Conduit entry - 1 or 2 no. brass cable glands suitable for cable OD 19 mm max.

2. BRASS POCKET**QTY. 1 NO.**

Pocket made out of brass shall have fixing threads of 1" B.S.P. (male type) and shall be suitable for R.T.D. sensor specified at 1. above.

3. RESISTANCE TO CURRENT CONVERTER UNIT WITH BUILT UP POWER SUPPLY UNIT**QTY. 1 NO.**

Resistance to current converter circuit board shall be housed in a weather proof box. Converter unit shall have two separate 4-20 mA output for scale range of 20 -140°C which can be displayed on a digital indicator and Recorder/DAS. Unit shall be suitable for 90-260 V AC/DC input power supply. Mounting dimensions of C.C.U. with built up power supply shall be as per Drg.44996200513.

पुनः Rev. 01 दिनांक Date 5/10/12	SPECIFICATION UPDATED <i>AKD</i> AKD URS	वितरण DISTRIBUTION. TRE/TRM/FTM TRX/TTG/ QC-TCB/QA-TCB/ JHANSI	सं.	CHECKED & APPROVED तैयार किया PREPD. sd Y.G.V	sd BSB जारी किया ISSUED टीआरई/मानक TRE/STD.	sd RKS दिनांक Date 17.06.91	sd SCB
--	---	---	-----	---	--	--------------------------------------	-----------

COPYRIGHT AND CONFIDENTIAL
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.



Form No. 2038

उत्पाद मानक
परिणामित्र
शाप/अभि. निर्देश

PRODUCT STANDARD
TRANSFORMER
SHOP/ENGG INSTRUCITONS

TR 20158T

1 पृष्ठों में 2

Page 2 of 2

R.F.F.

COMP. drg

4. REMOTE OIL TEMP. INDICATOR (ROTI)**QTY. 1 NO.**

This shall be remote digital type indicator to read temperature in the range of 20-140°C corresponding to 4-20mA input from CCU. The instrument shall be flush mounting type 96X96 mm size. It shall be marked oil temperature indicator. Instrument shall be suitable for 92 X 92 mm panel cut out dimensions.

NOTES:-

1. Each scheme shall be tested as OTI. Oil bath shall be maintained at 60°C. Accuracy of the indication shall be $\pm 1\%$ of F.S.D. i.e. oil bath temp. measured by standard thermometer.
2. All the instruments of the scheme shall be match marked after testing.
3. Acceptance tests shall be carried out as per TR 10157T.
4. RTD Sensor shall be suitable for outdoor application.

NOTE TO D/MAN & SHOP:-

1. Item no.1 (RTD sensor) is to be supplied loose & shall be covered in shipping list of transformer.
2. Item no.2 (resistance to current converter unit with built up power supply unit) is to be fitted in the marshalling box / kiosk before their dispatch.
3. Item no. 3 (Thermometer pocket) is to be fitted on transformer tank cover during shipping.
4. Item no. 4 (ROTI) is to be supplied loose or to be free issued to SWM as per schematic contract drawings.

COPYRIGHT AND CONFIDENTIAL
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.

पुनः Rev.
01
दिनांक
Date
5/10/12

SPECIFICATION UPDATED

वितरण
DISTRIBUTION.

सं.

CHECKED &
APPROVEDsd
BSBsd
RKSsd
SCB

TRE/TRM/FTM
TRX/TTG/
QC-TCB/QA-TCB/
JHANSI

तैयार किया PREPD.
sd
Y.G.V

जारी किया ISSUED
टीआरई/मानक TRE/STD.

दिनांक Date
17.06.91

AKD

URS