



TUBULAR HEATERS

1.0 Scope

This standard covers the requirement of tabular heaters used as space heaters in H.T. chambers of Switchgears to prevent condensation of moisture.

2.0 Rating

The heater shall be rated 230v, 75 watts.

3.0 Constructional aspects

The general arrangement of the heater shall be according to the drawing No.: 35215001630. The connections shall be brought to the terminal connector made of porcelain as shown on the drawing.

The heating element shall be of good quality Nicrome wire/ Aluminium -Iron alloy (kanthal) of about 42SWG in the form of coiled wire inserted inside porcelain tube. This element shall be uniformly spread over the entire length of porcelain tube, so that hot spots are avoided and uniform heat along complete length is ensured.

The support for the terminals shall be of good quality, heat resistant, mechanically strong vitrified white porcelain. The terminals for connection by the user shall be suitable for insertion of 2 Nos. 2.5 square mm stranded copper conductor.

The base bottom supports, end caps, perforated cover etc. shall be of good finish & shall be zinc plated & passivated.

A Rating plate giving wattage, voltage and manufacturers name and sl. No. Style No (.....) shall be suitably fixed on the end cap.

4.0 Tests

The supplier shall carry out following routine tests :-

- 1) Continuity.
- 2) Power frequency at 2kv for 1 minute.
- 3) Insulation resistance (not less than 10 Mega ohms).
- 4) Temperature rises test for 48 hours (110-130⁰ C).
- 5) Consumption (Approx. 75 watts)

Routine test reports shall be sent along with the consignment.

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 interest of Co.

REV.	01	PRINTS TO :-		APPROVED -		
ALTD.	NB	QCX (SCR)	1	N.N. SHENOI		
APPD.	RKS	PD&D	1	PREPARED	ISSUED	DATE
DATE.	28-07-2000	SWM (PLNG)	1	VJ	SKS	12-05-1993
		CEG	1			



5.0 Acceptance Criteria

1. Supplier to submit routine test report along with the consignment.
2. 100% Visual check.
3. Supplier to submit Test Report for dimensions check.
4. Rating plate as per clause 2.0 above.
5. 5% of heaters in a lot (however not less than 5 Nos). shall be subjected to following tests.
 - Continuity.
 - Power frequency at 2 kV for 1 minute.
 - Insulation resistance (not less than 10 Mega ohms) and samples shall pass the tests.

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 interest of Co.



PRODUCT STANDARD

SWITCHGEAR ENGINEERING DIVISION

SG 12900 Rev.No.:01

PAGE 03 OF 03

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 interest of Co.

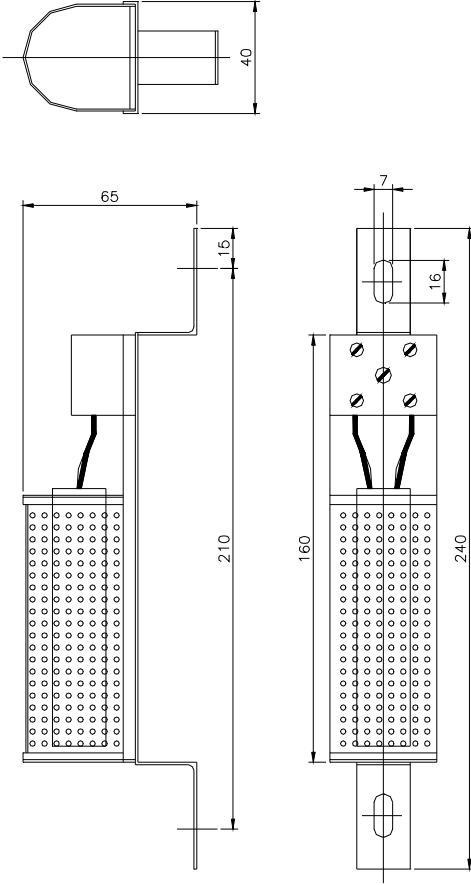
FIRST ANGLE PROJECTION

DRG. NO. 3 521 50 01630

(ALL DIMENSIONS ARE IN mm)

NOTE :-

1. FOR TECHNICAL DETAILS REFER PROD. STD SG12900.



59	64	65	VAR00	REMARKS	75	76	79	25	27	29	58	59	60	230 V/75 W HEATER	58	59	60	77	29	31	34	45	55	56	58	65	72

28 -> CARD TYPE-1

28 -> CARD TYPE-2

28 -> CARD TYPE-3

28 -> CARD TYPE-4

28 -> CARD TYPE-5

28 -> CARD TYPE-6

28 -> CARD TYPE-7

28 -> CARD TYPE-8

28 -> CARD TYPE-9

28 -> CARD TYPE-10

28 -> CARD TYPE-11

28 -> CARD TYPE-12

28 -> CARD TYPE-13

28 -> CARD TYPE-14

28 -> CARD TYPE-15

28 -> CARD TYPE-16

28 -> CARD TYPE-17

28 -> CARD TYPE-18

28 -> CARD TYPE-19

28 -> CARD TYPE-20

REF. DRG. NO. KANSARA/5215001630

IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED

SIGN. & DATE

INVENTORY NO.

REV. DATE ALTERED CHECKED APPROVED

02 9.4.01

DRG. REDRAWN ST NO. WAS 907355. (DCA NO.)

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

भारत भारी बिहार इलेक्ट्रिकल्स लि. बhopal

FILE NAME:- KANSARA- 36215001630

A3

HEATER

3 521 50 01630

02

001

15.5.90

15.5.90