

PURCHASE SPECIFICATIONS

FOR


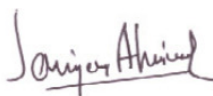

**CONTROL TRANSFORMER
(600V/33.5VAC, 50/200VA)**

FOR

OIL RIG APPLICATION



SPECIFICATION NO:	OR12470
REVISION NO:	00
DATE:	14.09.12

PREPARED BY:	CHECKED BY:	APPROVED BY:
		
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ISSUED BY:

**CONTROL EQUIPMENT ENGINEERING DIVISION
BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL -22**

GENERAL SPECIFICATIONS FOR CONTROL TRANSFORMER FOR OIL RIGS APPLICATION

1. SCOPE :

This specification applies to the requirement of 600V : 33.5VAC, 50 Hz, single phase control supply transformer with rating of 50/200VA, intended for indoor oil rig application for salt laden 95% humid atmospheric environment at 50 deg C ambient.

1.0 Technical parameters

Applicable standard	IS 12021
Rating	50 VA at 5% accuracy. 200 VA Inrush with maximum 10% Voltage drop.
No. of Phases	Single
Primary Voltage	600 VAC +/- 7%, 50Hz +/- 3%, 1 Ph
Secondary Voltage	33.5 V AC +/- 7% as per variation in primary voltage at no load.
Insulation class	H
Temperature Rise allowed	<75 deg C
Core Type	R core / EI core
Cooling	Natural air cooled.
Efficiency	Better than 95%.
Construction	Open frame with mounting feet, varnished, vacuum impregnated, epoxy dip. Mark the terminals with numbers mentioned above on side & top. Also mark : CONTROL TRANSFORMER Complete winding on shall be covered with non-inflammable insulating material. Terminals to be suitable for 2x1.5 sqmm wire. Screw type terminals to be provided. "DEGSON" DG78 series terminals are recommended.

Dimensions	110mm(H) x 130mm(L) x 100mm (D) max Mounting Feet 130mm (L) x 75mm (D) Mounting slots of size 6.5 x 12 mm. Mounting slots to be located on base frame at 58 mm x 95 mm.
Terminations Numbering	Primary - 0V (2), 600V (1) Secondary- 0V (4), 33.5V (3) Primary and secondary terminals to be numbered as per numbers given in bracket against each voltage terminal.
Markings on transformer	Control Transformer 600/33.5VAC, 50/200VA Style Code : BP9048132371

2.0 Tests

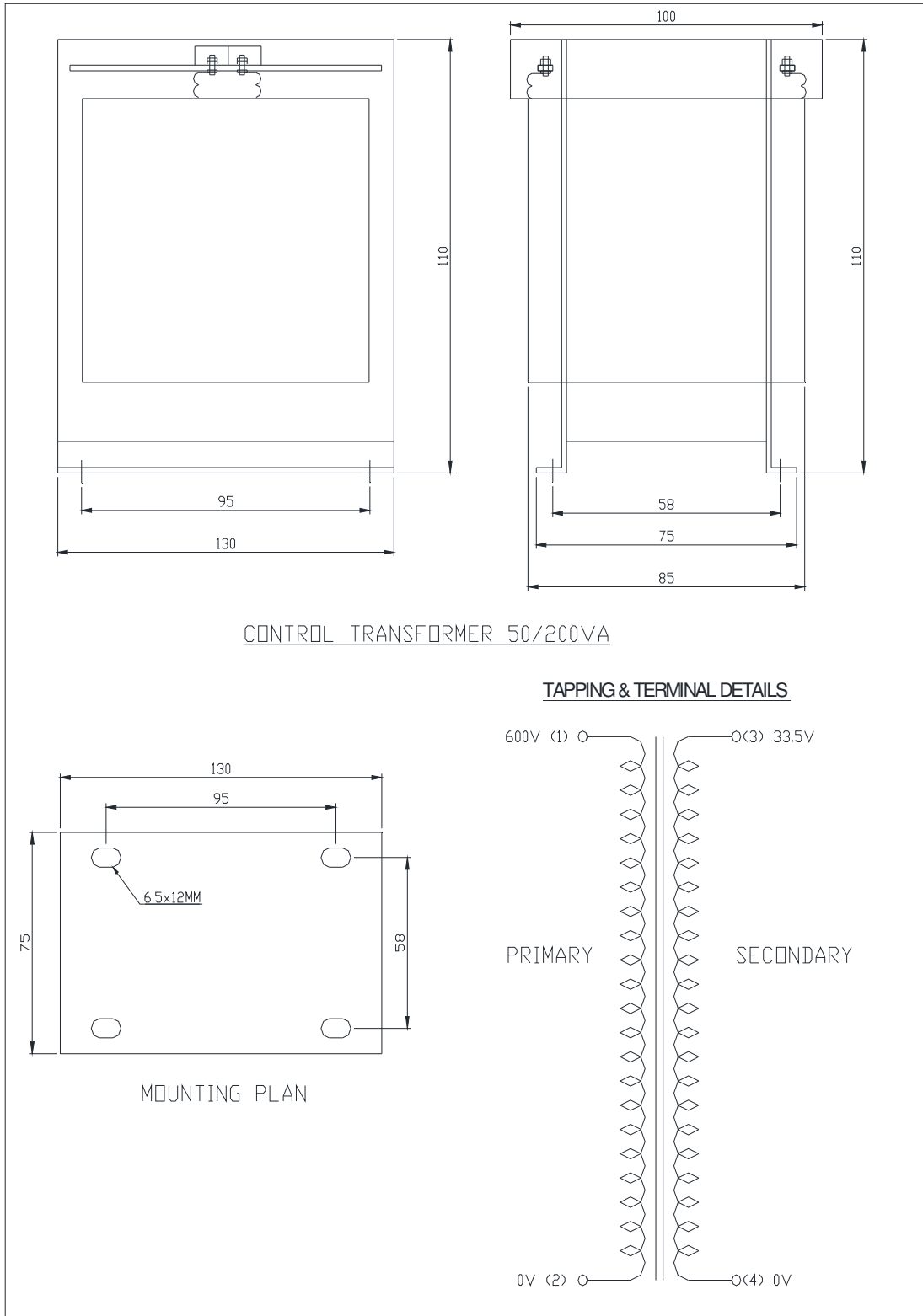
Following acceptance tests to be conducted on each transformer before dispatch by supplier at their premises.

Acceptance tests

- i) Transformer Ratio Test.
- ii) Winding Resistance Test.
- iii) Insulation Resistance Test.
- iv) No Load Current test.
- v) No Load Secondary Voltage test.
- vi) Temperature Rise test (On first unit of the each PO).
- iii) Dielectric test at 2.5 KV AC rms 50 Hz for One Minute between primary and secondary winding & between shorted windings and frame.

3.0 Documents required along with consignment

- i) Test reports - 3 copies



CONTROL TRANSFORMER 50/200VA

TAPPING & TERMINAL DETAILS

MOUNTING PLAN

Control Transformer: 600/33.5VAC, 50/200VA (Style Code : BP9048132371)