

TB164
PRODUCT DATA
054/212374
PA05/05983

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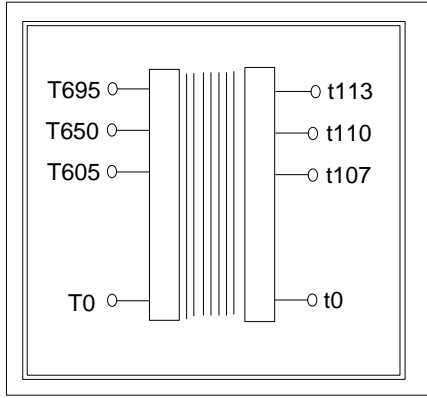
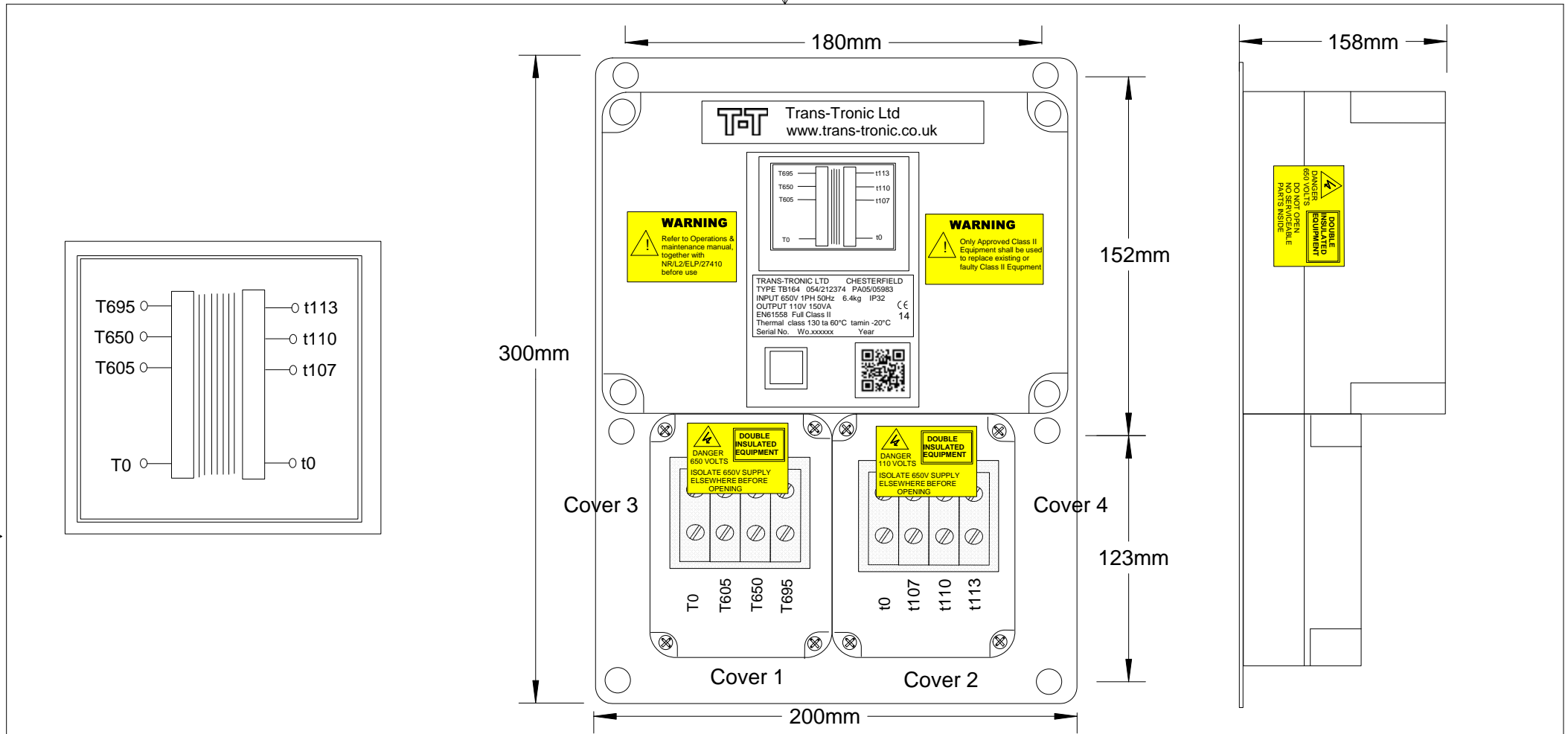
COIL WINDING – TRANSFORMER DESIGN & MANUFACTURE

Description: Full Class II Isolating Transformer for Non-Critical Auxiliary Circuits
 BS EN61558 650/110V 150VA



This is a full class II product which does not require functional or protective earthing
 The product complies with NR/L2/SIG30007 excluding clause 5.14.2.

Dimensions 200 x 158 x 300mm high 6.4Kg	Colour RAL 7035	
General arrangement drawing A4-GA-TB164	O&M Manual : Trans-Tronic Class II- Tx O&M	
Primary (Input) ClassII T0-T605-T650-T695	Secondary (output) Class II t0-t107-t110-t113	
Rating Full load 150VA Intermittent 180VA for 15 minutes in each hour , 150VA for remaining 45 minutes		
Primary terminals Screw up clamp 0.5-10mm ²	Secondary terminals Screw up clamp 0.5-10mm ²	
Enclosure IP32		
Efficiency 93% @ 80% load	Regulation 5.6%	Impedance 10.0%
No load loss 3 watts	Full load loss 11 watts	
Primary resistance @ 20°C 73 ohms @ 650V	Secondary resistance @ 20°C 1.8 ohms @ 110V	
Primary Inductance 780mH @ 650V	Secondary Inductance 25mH @ 110V	
Input current at full load rating 0.27A @ 605V 0.25A @ 650v 0.24A @ 695V	Output current at full load rating 1.36A	
Maximum Input current at intermittent rating 0.33A @ 605V 0.31A @ 650v 0.28A @ 695V	Maximum output current at intermittent rating 1.63	
Peak inrush current 9.8x FLC (2.45A at 650V)	i ² t 0.05A ² s	X/R ratio 1.6
Prospective short circuit output current @ 20°C 14.2A for 5 seconds		
Insulation resistance (500v) Primary to base plate >100M ohms Secondary to base plate >100M ohms Primary to secondary >100M ohms	Dielectric strength Primary to base plate 5.2kV Secondary to base plate 5.2kV Primary to secondary 5.2kV	Impulse withstand 8kV
Recommended fuse Protection Input BS88 2A 10x38 gG IEC 60269-1 &-2 1A Output BS88 2A 10x38 gG IEC 60269-1 &-2 2A		
Operational temperature range -20°C to +60°C	Humidity	Up to 100% RH
Altitude <2000 metres above sea level	Issue 4	17/03/2015



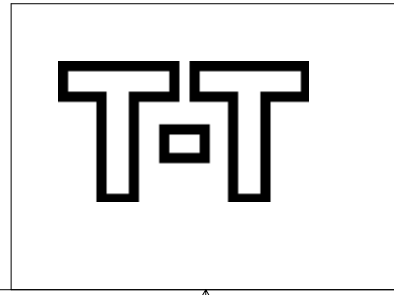
Primary Terminals 0.5-10mm² cable
 Secondary Terminals 0.5-10mm² cable

Tapped gland holes M20
 M25 by request

Front view

Side view

Item	Description	Part No.
Case 1	Transformer case+base	21-CASE-E4
Trans1	650/110 150VA classII	TT4651
Cover 1&2	Terminal box cover	21-CASE-Ensto1Cov1
Cover 3&4	Inner terminal cover	68-A4-TB163
Label 1	Full classII frontleft	02-class2-frontleft
Label 2	Full classII frontright	02-class2-frontright
Label 3	Circuit diagram+ Rating plate	TB164 CD+RP
Label 4	650VclassII external	02-class2-650E1ext
Label 5	110VclassII external	02-class2-110E1ext
Label 6	Trans-Tronic	02-trans-tronic
Label 7	650VclassII side	02-class2-650side



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TITLE Full Class II Isolating transformer for Non-Critical Auxiliary Circuits 650/110V 150VA TB164 054/212374 PA05/05983			
SIZE A4	DATE 19/03/2015	DWG NO A4-TB164-GA	REV 4
SCALE NTS	SHEET 1 of 1		