

TB163
PRODUCT DATA
054/212373
PA05/05983

Whitting Valley Road, Old Whittington, Chesterfield, Derbyshire S41 9EY UK
 Telephone: +44 (0) 1246 264260 Fax: +44 (0) 1246 455281
 Web: www.trans-tronic.co.uk E mail: sales@trans-tronic.co.uk

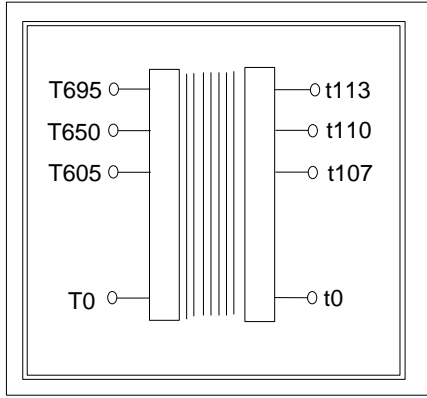
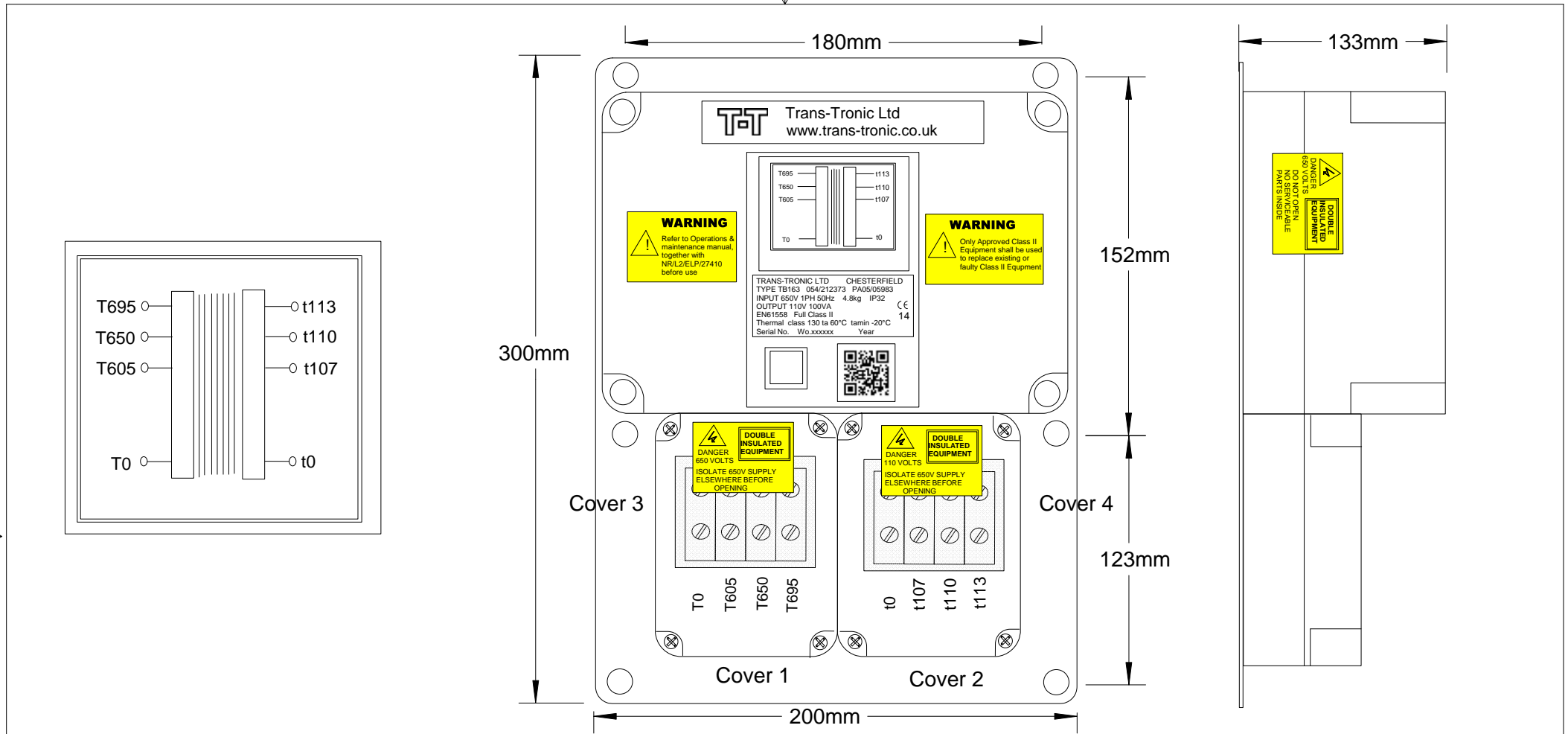
COIL WINDING – TRANSFORMER DESIGN & MANUFACTURE

Description: Full Class II Isolating Transformer for Non-Critical Auxiliary Circuits
 BS EN61558 650/110V 100VA



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 133 x 300mm high 4.8Kg	Colour	RAL 7035	
General arrangement drawing	A4-GA-TB163	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 100VA Intermittent 120VA for 15 minutes in each hour, 100VA 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	94% @ 80% load	Regulation	6.0%	Impedance 9.6%
No load loss	1.5watts	Full load loss	8.0 watts	
Primary resistance @ 20°C	114 ohms @ 650V	Secondary resistance @ 20°C	3.2 ohms @ 110V	
Primary Inductance	953mH @ 650V	Secondary Inductance	31mH @ 110V	
Input current at full load rating	0.18A @ 605V 0.17A @ 650v 0.16A @ 695V	Output current at full load rating	0.91A	
Maximum Input current at intermittent rating	0.22A @ 605V 0.21A @ 650v 0.20A @ 695V	Maximum output current at intermittent rating	1.09	
Peak inrush current	9.5x FLC (1.6A at 650V)	I ² t	0.02 A ² s	X/R ratio 1.3
Prospective short circuit output current @ 20°C	9.6A	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	5 17/03/2015	



Item	Description	Part No.
Case 1	Transformer case+base	21-CASE-E3
Trans1	650/110 100VA classII	TT4650
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	TB163 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

Primary Terminals 0.5-10mm² cable
 Secondary Terminals 0.5-10mm² cable
 Tapped gland holes M20
 M25 by request

Front view
 Side view

Trans-Tronic Ltd
 Whitting Valley Road, Chesterfield, S41 9EY
 Tel: 01246 264260 Fax: 01246 455281

TITLE Full Class II Isolating transformer for Non-Critical Auxiliary Circuits
 650/110V 100VA TB163 054/212373 PA05/05983

SIZE	DATE	DWG NO	REV
A4	17/03/2015	A4-TB163-GA	5
SCALE	NTS	SHEET 1 of 1	