

TB162
PRODUCT DATA
054/212372
PA05/05983

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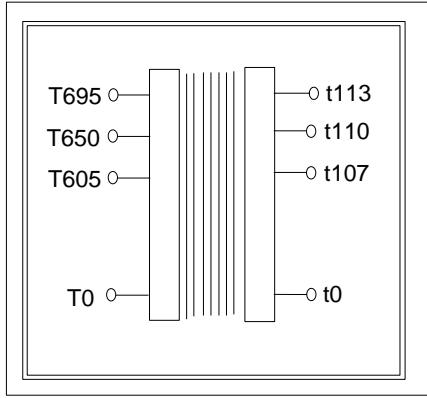
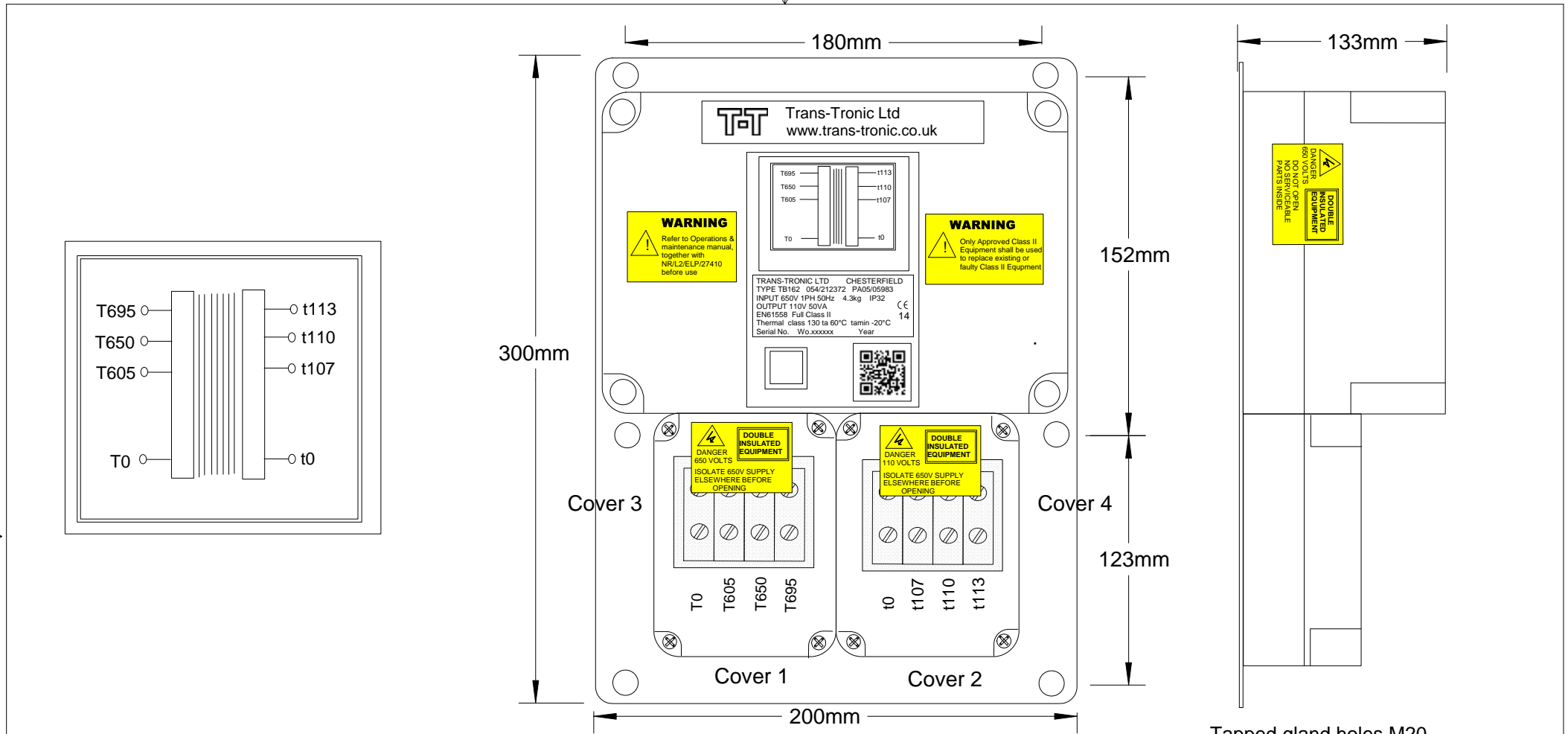
COIL WINDING – TRANSFORMER DESIGN & MANUFACTURE

Description: Full Class II Isolating Transformer for Non-Critical Auxiliary Circuits
 BS EN61558 650/110V 50VA



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 4.3Kg	Colour	RAL 7035	
General arrangement drawing	A4-GA-TB162	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 50VA Intermittent 60VA for 15 minutes in each hour, 50VA 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	92% @ 80% load	Regulation	6.7%	Impedance 10.0%
No load loss	1.3watts	Full load loss	4.9 watts	
Primary resistance @ 20°C	270 ohms @ 650V	Secondary resistance @ 20°C	6.9 ohms @ 110V	
Primary Inductance	1870mH @ 650V	Secondary Inductance	61mH @ 110V	
Input current at full load rating	0.091A @ 605V 0.085A @ 650v 0.079A @ 695V	Output current at full load rating	0.45A	
Maximum Input current at intermittent rating	0.11A @ 605V 0.10A @ 650v 0.094A @ 695V	Maximum output current at intermittent rating	0.55	
Peak inrush current	9.8x FLC (0.83A at 650V)	I ² t	0.005 A ² s	X/R ratio 1.2
Prospective short circuit output current @ 20°C	4.6A	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 1A			
Operational temperature range	-20°C to +60°C			
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 50VA classII	TT4649
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	TB162 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



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SIZE A4	DATE 17/03/2015	DWG NO A4-TB162-GA	REV 4
SCALE NTS	SHEET 1 of 1		