



Certificate no. 4001132

TB133
PRODUCT DATA
054/212586
PA05/05325

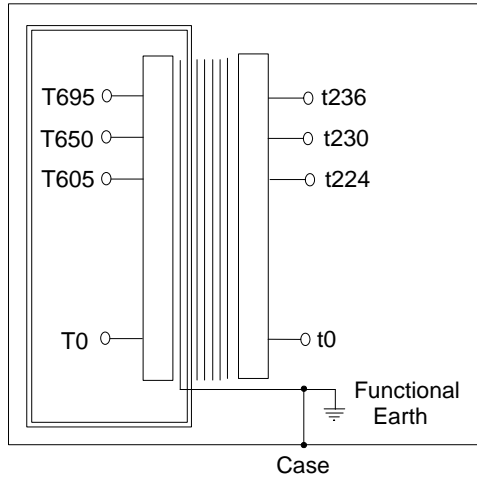
Whitting Valley Road, Old Whittington, Chesterfield, Derbyshire S41 9EY UK
 Telephone: +44 (0) 1246 264260 Fax: +44 (0) 1246 455281
 Web: www.trans-tronic.co.uk E mail: sales@trans-tronic.co.uk

COIL WINDING – TRANSFORMER DESIGN & MANUFACTURE

Description:	Class II Hybrid FSP Isolating Transformer NR/L2/SIG/30007	650/230V 500VA
--------------	--	-----------------------



Dimensions	270x187x 256mm high	17Kg	Colour	BS381c shade 632	Dark Admiralty Grey
General arrangement drawing	GA-TB133 overleaf		O&M Manual	Trans-Tronic ClassII-Hybrid-FSP- Tx O&M	
Primary (Input) ClassII	T0-T605-T650-T695		Secondary (output) ClassI	t0-t224-t230-t236	
Rating	Full load	500VA	Intermittent	600VA for 15 minutes in each hour , 500VA for remaining 45 minutes	
Primary terminals	Screw up clamp 0.2 -6mm ²		Secondary terminals	Screw up clamp 0.5-10mm ²	
Functional earth	Screw up clamp 0.5-10mm ²		Enclosure	IP32	
Efficiency	93%	Regulation	4.8%	Impedance	5.0%
No load losses	12 watts		Full load losses	36 watts	
Primary resistance @ 20°C	19.5 ohms @ 650V		Secondary resistance @ 20°C	2.5 ohms @ 230V	
Primary Inductance	41mH @ 650V		Secondary Inductance	5.7mH @ 230V	
Input current at full load	0.90A @ 605V 0.84A @ 650v 0.78A @ 695V		Output current at full load (500VA)	2.17A	
Input current at 120% of full load (15 minutes in each hour)	1.06A @ 605V 1.00A @ 650v 0.93A @ 695V		Output current at 120% full load (600VA)	2.60A	
Peak inrush current	8.9x FLC (7.4A at 650V)		I ² t	0.50 A ² s	X/R ratio 0.35
Prospective short circuit current	@ 20°C 40A for 5 seconds				
Insulation resistance (500v)	Primary to core >100M ohms		Dielectric strength	Primary to core	5.2Kv
	Secondary to core >100M ohms			Secondary to core	3.8Kv
	Primary to secondary >100M ohms			Primary to secondary	5.2Kv
Recommended fuse Protection	BS88 & 10x38 gG IEC 60269-1 &-2		2A		Impulse withstand 8KV
Operational temperature range	-20°C to +60°C		Humidity	Up to 100% RH	
Altitude	<2000 metres above sea level		Issue 4	01/08/2013	

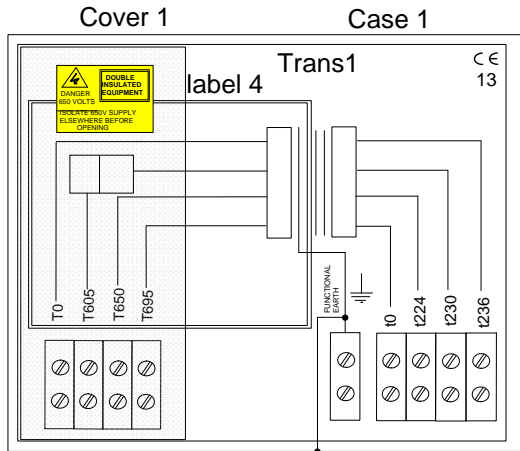
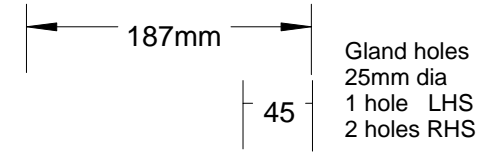
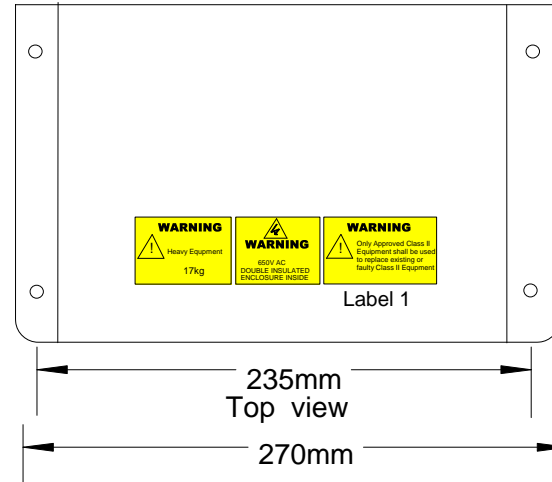


Primary Terminals
0.2-6mm² cable

Secondary Terminals
0.5-10mm² cable

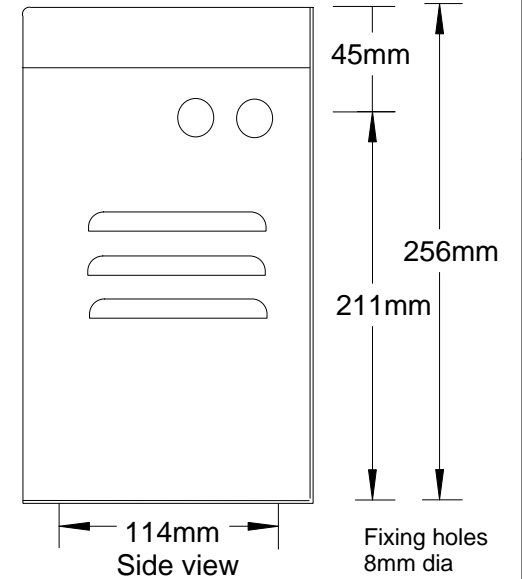
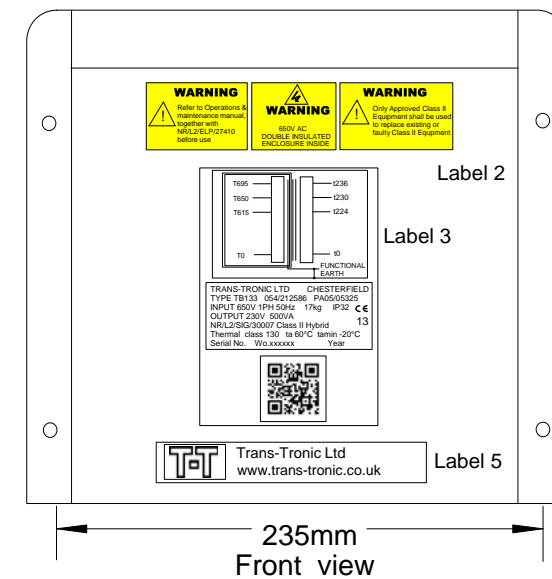
Functional Earth
0.5-10mm² cable

35mm
114mm
38mm



Internal view with case lid removed

59mm
152mm
45mm



Item	Description	Part No.
Case 1	Transformer case	21-CASE-P3DG
Trans1	650/230v 500va classII	TT4358
Cover 1	P3 Poly carb	21-P3-COV1
Cover 2	P3 Mylar side layer	21-P3-COV2
Label 1	650VClassIIP3top	02-class2-650P3top
Label 2	650VClassIIP3front	02-Class2-650P3Front
Label 3	Circuit diagram + Rating plate	TB133CD+RP
Label 4	650VClassII internal	02-class2-650int
Label 5	Trans-Tronic	02-trans-tronic

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

TITLE GA drawing for ClassII Hybrid FSP Isolating transformer
650/230V 500VA 054/212586 PA05/05325

SIZE	DATE	DWG NO	REV
A4	01/08/2013	A4-TB133-GA	5
SCALE	NTS		SHEET 1 of 1