



Certificate no. 4001132

**TB208**  
**PRODUCT DATA**  
**054/212597**  
**PA05/05325**

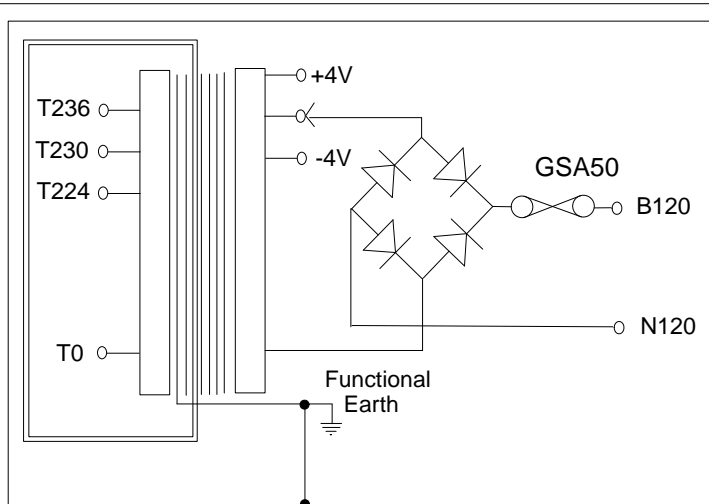
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**COIL WINDING – TRANSFORMER DESIGN & MANUFACTURE**

Description:	<b>Class II Hybrid Transformer Rectifier for Point Machines NR/L2/SIG/30007 BR865 type B 230/120v @ 5A DC</b>
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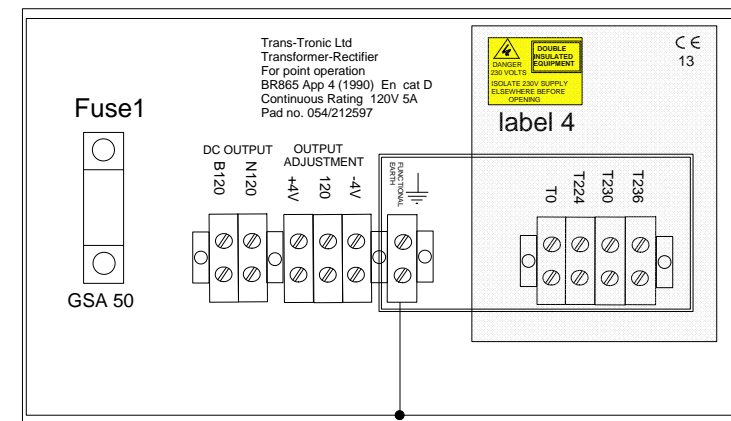
Dimensions	405x270x 200mm high	Weight	25Kg	Colour	BS381c shade 632 Dark Admiralty Grey
General arrangement drawing	GA-TB208	overleaf		O&M Manual:	Trans-Tronic ClassII-Hybrid Point machine Tj
Primary (Input) ClassII	T0-T215-T230-T245	Output ClassI	B120 N120 with ±4v taps	5A continuous	
Primary terminals	Screw up clamp 0.5 -6mm <sup>2</sup>	Secondary terminals	Screw up clamp 0.5-10mm <sup>2</sup>		
Functional earth	Screw up clamp 0.5-10mm <sup>2</sup>	Enclosure	IP32		
Suitable for driving 2x style 63 point motors, 2 x HW2xxx series, 2 x HPSS point motors, 4 x clamp lock point motors , 1 x Hydrive point motor					
Primary resistance 0.59ohms @ 650V Primary Inductance 1.9mH			Secondary resistance 0.20 ohms Secondary Inductance 0.8mH		
Duty cycle 1 70A surge for 0.1 seconds 30A clutch slipping 0.4 seconds 20A Drive for 10 seconds Every 1 minutes		Duty cycle 2 70A surge for 0.1 seconds 40A clutch slipping 0.4 seconds 20A Drive for 10 seconds Every 2 minutes		Duty cycle 3 70A surge for 0.1 seconds 40A clutch slipping 0.4 seconds 24A Drive for 10 seconds Every 3 minutes	
Input current at 650V 3.7A @ 5.0A Continuous Output 14.4A @ 20A Drive Output 28.7A @ 40A Clutch slipping Output			Output Voltage No load <134V 20A DC Output 120±2V 40A DC Output >110V		
Peak inrush current 9.1x FLC (131A at 230V)			I <sup>2</sup> t	129A <sup>2</sup> s	X/R ratio 0.51
Insulation resistance (500v) Primary to body >100M ohms Secondary to body >100M ohms Primary to secondary >100M ohms			Dielectric strength Primary to body 3.8Kv Secondary to body 2.8Kv Primary to secondary 3.8Kv		Impulse withstand 8Kv
Recommended fuse Protection BS88 & 10x38gG IEC 60269-1 & 2 16A					
Operational temperature range -20°C to +60°C			Humidity Up to 100% RH		
Altitude <2000 metres above sea level			Issue 3 01/08/2013		



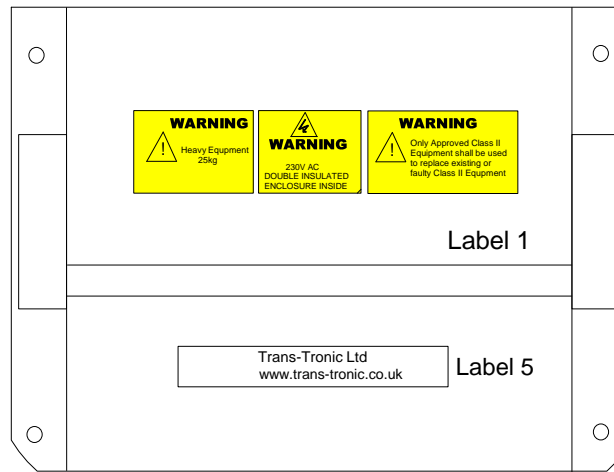
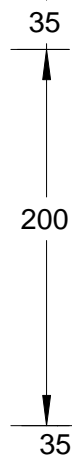
Case

Case 1

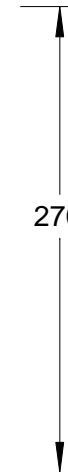
Cover 1



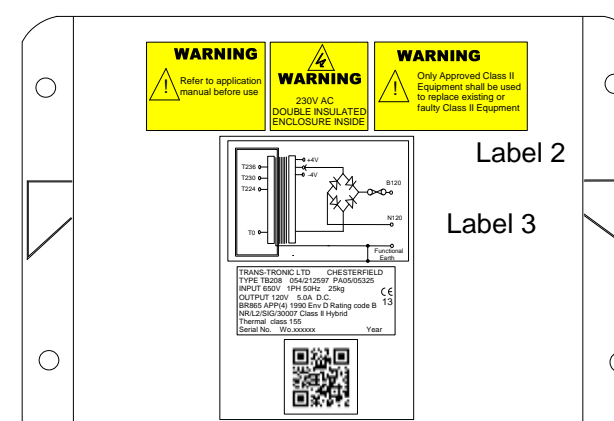
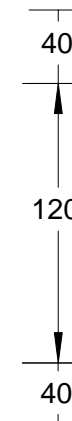
Internal view with case lid removed



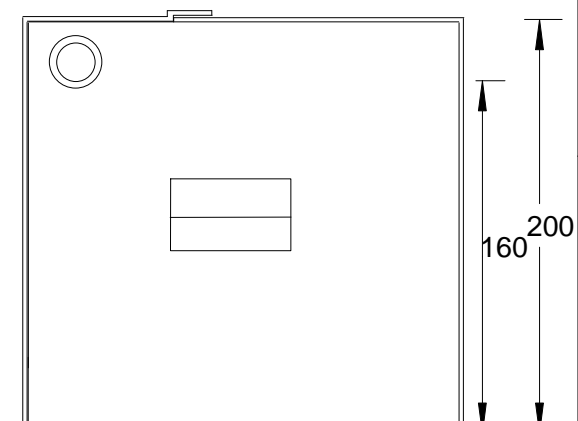
Top view



Gland holes  
25mm dia  
2 hole LHS  
1 holes RHS



Front view



Side view  
Fixing holes  
8mm dia

Item	Description	Part No.
Case 1	Trans/Rect case	21-CASE-TR2DG
Trans 1	230V/120V 5A classII	TT4489
Cover 1	TR2 Poly carb	21-TR2-COV1
Fuse1	Rectifier Fuse GSA50	01-50A-GSA
Label 1	230VClassIITR2top	02-class2-230TR2top
Label 2	230VClassIITR2front	02-Class2-230TR2front
Label 3	Circuit diagram + Rating plate	TB208CD+RP
Label 4	230VClassII internal	02-class2-230int
Label 5	TRANS-TRONIC	02-Trans-Tronic

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TITLE GA drawing for ClassII Hybrid points machine  
230V/120V @ 5A cont DC 054/212597 PA05/05325

SIZE <b>A4</b>	DATE 01/08/2013	DWG NO <b>A4-TB208-GA</b>	REV <b>3</b>
SCALE		SHEET 1 of 1	