



Certificate no. 4001132

TB171
PRODUCT DATA
054/212603
PA05/05325

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COIL WINDING – TRANSFORMER DESIGN & MANUFACTURE

Class II Hybrid FSP Isolating Transformer with copper conductors
NR/L2/SIGELP/30007 650/110V 4 x 350VA Ultra low Inrush



Dimensions	340x280x 280mm high	Weight	47Kg	BS381c shade 632	Dark Admiralty Grey
General arrangement drawing	GA-TB171 overleaf			O&M Manual :	Trans-Tronic ClassII-Hybrid-FSP- Tx O&M
Primary (Input)	ClassII T0-T605-T650-T695			Secondary (output)	ClassI 4 x t0-t107-t110-t113-t140
Rating	Full load 4 x 350VA Intermittent 4 x 420VA for 15 minutes in each hour , 4 x 350VA for remaining 45 minutes				
Primary terminals	Screw up clamp 0.5 -10mm ²		Secondary terminals	Screw up clamp 0.5-10mm ²	
Functional earth	Screw up clamp 0.5-10mm ²		Enclosure IP32		
Efficiency	96%	Regulation	3.5%	Impedance	3.8%
No Load losses	17 watts			Full load losses 67 watts	
Primary resistance @ 20°C	5.1ohms @ 650V			Secondary resistance @ 20°C	
Primary Inductance	16mH @ 650V			Each secondary 0.60 ohms @ 110V	
Input current at full load	2.6A @ 605V 2.4A @ 650v 2.3A @ 695V			Secondary Inductance 0.46mH @ 110V	
Input current at 120% of full load (15 minutes in each hour)	3.0A @ 605V 2.8A @ 650v 2.6A @ 695V			Output current at full load each secondary (450VA)	
Peak inrush current	2.8 x FLC (6.3A at 650V)			110V 4.1A 140V 3.2A	
Prospective short circuit current @ 20°C	single secondary 140A All secondary's 320A for 5 seconds			Output current at 120% full load for each secondary (540VA)	
Insulation resistance (500v)	Primary to body >100M ohms			110V 4.9A 140V 3.9A	
	Secondary to body >100M ohms			I ² t 0.3 A ² s	
	Primary to secondary body >100M ohms			X/R ratio 0.51	
Recommended input fuse protection	BS88 & 10x38 gG IEC 60269-1 &-2 4A				
Operational temperature range	-20°C to +60°C			Humidity Up to 100% RH	
Altitude	<2000 metres above sea level			Issue 1 16/02/2016	