

SPECIFICATION

Title: POWER TRANSFORMER-
ELECTRICAL SPECIFICATION

POWER TRANSFORMER FOR IMI CORNELIUS

ELECTRICAL CHARACTERISTICS OF TRANSFORMER:

1. PRIMARY RATED VOLTAGE AND RATED FREQUENCY:
230V \pm 10% 50/60Hz nominal.
2. SECONDARY RATED VOLTAGE AND RATED CURRENT:
AC24.0V 4.17A at 230V input 50Hz.
3. SECONDARY NO LOAD VOLTAGE:
AC25.9V \pm 5% at 230V input 50Hz.
4. EXCITING CURRENT:
170mA Max. at 230V input 50Hz.
5. TEMPERATURE RISE:
To be within maximum temperature classification when loaded at 4.17A AC in ambient temperature 25°C at 253V input.
6. HIGH POT TEST: Max. Trip Current 1mA.

	TYPE TEST	PRODUCTION TEST
	1 Minute	
Between:-		
Primary Winding & Secondary Winding	3.75kV	4.5kV AC 50Hz 2 seconds.
Primary Winding & Core	1.875V	2.25kV AC 50Hz 2 seconds.
Secondary Winding & Core	1.875kV	2.25kV AC 50Hz 2 seconds.
7. INSULATION RESISTANCE:
500M Ω minimum at 500V DC between Primary and Secondary Windings and between Windings and Core.
8. ENDURANCE:
Transformer shall be operated for 48 hours at 253V input with normal load. After this test the transformer must withstand the High Potential Test and the Insulation Resistance must be greater than 5M Ω .
9. INDUCED VOLTAGE:
Primary Winding must withstand 460V rms at 400Hz applied for 1 minute duration without deterioration.

TAMURA HINCHLEY
POWER TECHNOLOGY

TAMURA HINCHLEY LTD
Hopton Industrial Estate,
Devizes,
Wiltshire SN10 2EY
Tel. 01380 731700
Fax. 01380 731702

ACCEPTANCE SPEC. No.

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