

Synchro, Torque Differential Transmitter, Type 37TDX6A

FSC 5990

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This specification is approved for use by all Departments and Agencies of the Department of Defense. The requirements for acquiring the Synchros described herein shall consist of this specification and the latest issue of MIL-S-20708.

TABLE I. Requirements.

Requirement	Value	Unit	Tolerance
Frequency	60	Hz	±1%
Primary Voltage	78	volts	±1%
Primary Current	2050.0	milliamps	maximum
Primary Power	15.6	watts	maximum
Impedance:			
Z _{so}	-----	ohms	min.-max.
Z _{rs}	-----	ohms	min.-max.
Impedance Angle:			
Z _{so}	-----	degrees	min.-max.
Z _{rs}	-----	degrees	min.-max.
Transformation Ratio	1.154	-----	±2%
Phase Shift (Lead)	3.0	degrees	maximum
Electrical Error	10.0	minutes	maximum
Torque Gradient	1.10	ounce-inches per degree	minimum.
Friction Torque	0.50	ounce-inches	maximum
Radial Play	0.0008	inches	maximum
End Play	0.0030	inches	±0.0020
Temperature Rise	-----	degrees (C)	maximum
Variation of Voltage (+10%) and Freq. (-5%)	-----	watts	maximum