

Synchro, Torque Receiver, Type 11TR4C

FSC 5990

RATIONALE

This Revision consists of a 5 (five) year review, which provides updates to current format and references

NOTICE

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 AS20708.

TABLE 1 – REQUIREMENTS

REQUIREMENT	VALUE	UNIT	TOLERANCE
Frequency	400	Hz	± 1 %
Primary Voltage	115	Volts	± 1 %
Primary Current	60.0	Milliamps	Maximum
Primary Power	1.0	Watts	Maximum
Impedance:			
Zss	180 - 250	Ohms	Min. – Max.
Impedance Angle:			
Zss	22.0 - 28.0	Degrees	Min. – Max.
Transformation Ratio	0.783	-----	± 2 %
Phase Shift (Lead)	6.0	Degrees	Maximum
Electrical Error	-----	Minutes	Maximum
Receiver Error	60.0	Minutes	Maximum
Synchronizing Time:			
30° ± 2°	1.0	Seconds	Maximum
Synchronizing Time:			
177° ± 2°	2.0	Seconds	Maximum
Torque Gradient	0.0080	Ounce – Inches Per Degree	Minimum
Radial Play	0.0006	Inches	Maximum
End Play	0.0025	Inches	± 0.0020
Temperature Rise	25.0	Degrees – C	Maximum
Variation of Voltage (+10%) and Freq. (-5%)	1.45	Watts	Maximum

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