

AEROSPACE STANDARD

SAE AS20708/56

Issued

1999-07

Synchro, Torque Receiver Transmitter, Type 23TRX6B

FSC 5990

NOTICE

This document has been taken directly from U.S. Military Specification MIL-S-20708/56E and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace MIL-S-20708/56E. Any part numbers established by the original specification remain unchanged.

The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualification requirements and associated qualified products lists are mandatory for DQD contracts. Any requirement relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this SAE technical document.

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright 1999 Society of Automotive Engineers, Inc. All rights reserved.

SAE AS20708/56

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	115	volts	#1%
Primary Current	210.0	milliamps	maximum
Primary Power	5.6	watts	maximum
Impedance:	0.0	i i i i i	/
Zss	110-145	ohms 6	minmax.
Impedance Angle:	110-143		
Zss	10.0-17.0	degrees	minmax.
Transformation Ratio	0.783		±2%
Phase Shift (Lead)	11.0	degrees	maximum
Electrical Error	8.0	minutes	maximum
Receiver Error	45.0	minutes	maximum
Null Voltage:	10,0		
Total	160.0	millivolts	maximum
Fundamental	60.0	millivolts	maximum
Synchronizing Time:	.0		
30° ±2°	1.0	seconds	maximum
Synchronizing Time:	VO.		
177° ±2°	2.0	seconds	maximum
Torque Gradient	0.12	ounce-inches	minimum
	N .	per degree	
Radial Play	0.0010	inches	maximum
End Play	0.0025	inches	±0.0020
Temperature Rise	35.0	degrees (C)	moximum
Variation of Voltage			
(+10%) and Freq. (-5%)	8.1	watts	maximum
Oh.			