AEROSPACE STANDARD

AS20708™/6	REV. B

Issued 1999-07
Revised 2011-02
Stabilized 2016-06

Superseding AS20708/6A

Synchro, Torque Transmitter, Type 26V-11TX4C

FSC 5990

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

STABILIZED NOTICE

This document has been declared "Stabilized" by the SAE AE-7A Generators, Controls, and Magnetic Devices Committee and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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 revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2016 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)**
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
SAE WEB ADDRESS: http://www.sae.org

SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technical/standards/AS20708/6B

Documents Document Sharing Hub
Full document details: SAE AS20708_6B

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	26	Volts	± 1 %
Primary Current	280.0	Milliamps	Maximum
Primary Power	1.0	Watts	Maximum
Impedance:			
Zss	3.3 – 4.2	Ohms	Min. – Max.
Impedance Angle:			
Zss	17.0 - 24.0	Degrees	Min. – Max.
Transformation Ratio	0.454	- - - - - -	± 2 %
Phase Shift (Lead)	4.0	Degrees	± 1.0
Electrical Error	7.0	Minutes	Maximum
Torque Gradient	0.0080	Ounce – Inches Per Degree	Minimum
Null Voltage			
Total	- - - - - -	Millivolts	Maximum
Fundamental	- - - - - -	Millivolts	Maximum
Radial Play	0.0006	Inches	Maximum
End Play	0.0010	Inches	± 0.0005
Temperature Rise	20.0	Degrees – C	Maximum
Friction Torque	0.07	Ounce – Inches	Maximum
Variation of Voltage (+10%) and Freq. (-5%)	1.4	Watts	Maximum

Documents
Document Sharing Hub
Full document details: SAE AS20708_6B