

**Synchro, Torque Receiver, Type 26V-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                                | 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)                             | 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<br>Per Degree | Minimum     |
| Radial Play                                    | 0.0006      | Inches                       | Maximum     |
| End Play                                       | 0.0025      | Inches                       | ± 0.0020    |
| Temperature Rise                               | 20.0        | Degrees – C                  | Maximum     |
| Variation of Voltage<br>(+10%) and Freq. (-5%) | 1.4         | Watts                        | Maximum     |

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