

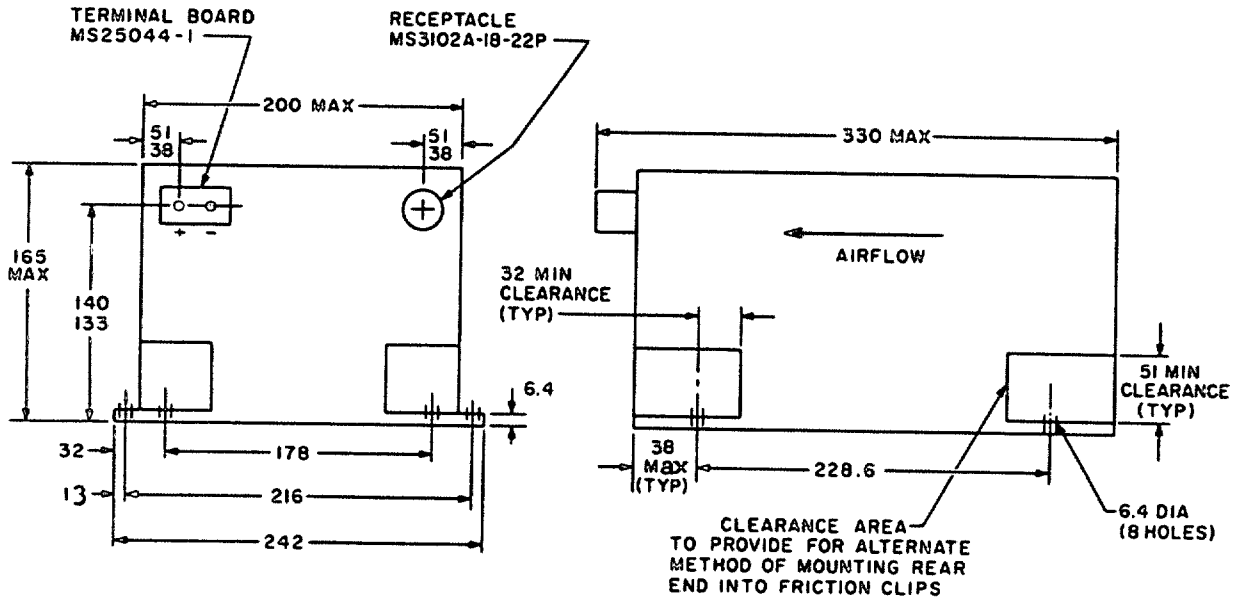
DOD-C-7115/1 (AS)

24 May 1977

MILITARY SPECIFICATION SHEET

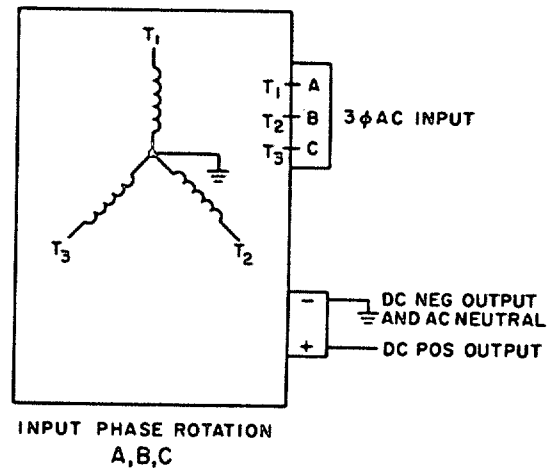
CONVERTER, 100 AMPERE, AIRCRAFT,
CLASS B, REGULATED, FAN COOLED

This specification is approved by the Naval Air Systems Command, Department of the Navy, and is available for use by all departments and agencies of the Department of Defense. The complete requirements for procuring the converter described herein shall consist of this document and the issue in effect of specification MIL-C-7115.



PN D7115/1-1

| | |
|---|---------------|
| INPUT | |
| VOLTAGE (NOMINAL) | 115/200 VOLTS |
| FREQUENCY (NOMINAL) | 400 HZ. |
| PHASE | 3 |
| OUTPUT | |
| VOLTAGE (NOMINAL) D.C. | 28 VOLTS |
| CURRENT TO 15 240 METERS ALTITUDE | 100 AMP |
| EFFICIENCY | |
| AT SEA LEVEL, 25° + 15°C, HALF RATED LOAD TO RATED LOAD | 75% MIN. |
| MASS (KG) | 7.3 MAX. |



INPUT PHASE ROTATION
A,B,C

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REQUIREMENTS:

1. FOR ANY COMBINATION OF CONDITIONS LISTED BELOW THE OUTPUT VOLTAGE SHALL REMAIN WITHIN THE INDICATED LIMITS.

| CONDITIONS | OUTPUT VOLTAGE LIMITS |
|---|---|
| INPUT VOLTAGE VARIED BETWEEN 112.5/195 AND 117.5/204 AND FREQUENCY VARIED 380-420 HZ. LOAD VARIED FROM 0 TO FULL LOAD. AMBIENT TEMPERATURE-ALTITUDE VARIED WITHIN THE RANGE ESTABLISHED BY CURVE 1 OF MS33543 EXCEPT THAT THE AMBIENT TEMPERATURE FOR THIS UNIT SHALL NEVER EXCEED 85°C. THE UNIT SHALL DELIVER NO LESS THAN A PROPORTIONAL DECREASE FROM RATED OUTPUT AT 15 240 METERS TO 50% RATED OUTPUT AT 19 812 METERS. | ADJUSTABLE FROM 27.5 TO 28.5 VOLTS. REGULATION + .5 VOLT FROM ADJUSTED VOLTAGE |

2. THE AIRCRAFT MANUFACTURER SHALL ALLOW CLEARANCE OF AT LEAST 25.4 MM AT EACH END OF THE CONVERTER IN ADDITION TO THE MAXIMUM DIMENSIONS SHOWN ON THIS DRAWING FOR INSTALLATION AND VENTILATION.
3. THE ~~mass~~ AND DIMENSIONS SHOWN ON THIS DRAWING SHALL INCLUDE THE ~~mass~~ AND DIMENSIONS OF ALL AUXILIARY APPARATUS NECESSARY TO MAKE THIS PRODUCT CONFORM TO THIS DRAWING AND THE PROCUREMENT SPECIFICATION.
4. THE CONVERTER SHALL NOT REQUIRE ANY WARM-UP TO MEET ALL REQUIREMENTS OF THIS DRAWING AND THE PROCUREMENT SPECIFICATION.
5. THE CONVERTER SHALL REQUIRE NO CONDUCTION COOLING UNDER ANY RATED OPERATING CONDITION.
6. PARALLEL OPERATION IS NOT REQUIRED.
7. THE OUTPUT VOLTAGE SHALL BE ADJUSTED TO 28.0 VOLTS, 100 AMPERE LOAD AT ROOM TEMPERATURE PRIOR TO TEMPERATURE-ALTITUDE TESTS.
8. THE RIPPLE VOLTAGE SHALL NOT EXCEED THE REQUIREMENTS OF MIL-STD-704.
9. THE CONVERTER SHALL NOT HAVE AN EXTERNAL VOLTAGE ADJUSTMENT.
10. THE CONVERTER SHALL MEET ALL REQUIREMENTS OF THIS DRAWING AND THE REQUIREMENTS OF MIL-STD-704.
11. THE COMPLETE REQUIREMENTS FOR PROCURING THE CONVERTER DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF SPECIFICATION MIL-C-7115.

NOTES:

- ALL DIMENSIONS IN MILLIMETERS.
- UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE $\pm .38 \text{ mm}$.

PREPARING ACTIVITY:

NAVY - AS

PROJECT NO. 6130-N175

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