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Review/user information is current as of the date of this document.  
For future coordination of changes to this document, draft circulation  
should be based on the information in the current DODDS.

The military standard is approved for use by all Departments  
B. Agencies of the Department of Defense. Selection for all new  
engineering and design applications and for repetitive use shall  
be made from this document.

		FED. SUP CLASS 6115
(D) - REVISED AND REDRAWN		
P.A. NAVY - AS Other Cost AF 99	TITLE GENERATOR, DIRECT CURRENT, 300 AMPERE, CLASS A, BLAST COOLED, 3000-8000 RPM	MILITARY STANDARD MS90332
PROCUREMENT SPECIFICATION MIL-G-6162	SUPERSEDES AN3623, AN3633, E-1603 AND MS25009 FOR NAVAIR USE	SHEET 1 OF 3

APPROVED 4 NOV. 1964 REVISED 24 OCT 1975 1 AUG 77 6 Sep 1979

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FED. SUP CLASS  
6115

GENERATOR CHARACTERISTICS	
PROPERTY	VALUE
RATED VOLTAGE, VOLTS	30
RATED CURRENT, AMPERES	300
RATED SPEED RANGE, RPM	3000-8000
CONTINUOUS OPERATING SPEED, RPM	6000
MINIMUM SPEED FOR REGULATION, RPM	3500
MAXIMUM SPEED FOR REGULATION, RPM	10000
OVERSPEED, RPM	11000
REGULATION FIELD CURRENT-MAXIMUM, AMPERES	6
POWER TO BE DISSIPATED BY REGULATOR-MAXIMUM, WATTS	90
WEIGHT-MAXIMUM, POUNDS	53
EFFICIENCY-MINIMUM, PERCENT	70
MOMENT OF OVERHANG - MAXIMUM, POUND-INCHES	275
MINIMUM NATURAL FREQUENCY, HERTZ	275
SHEAR SECTION, POUND-INCHES	1700-2000
OVERLOAD CURRENT AT 6000 RPM, AMPERES	
200 PERCENT FOR 5 SECONDS	600
150 PERCENT FOR 2 MINUTES	450

(D)

## REQUIREMENTS

1. THE FREE END OF THE GENERATOR SHALL CONTAIN TWELVE (12) #10-32 UNF-3B THREADED HOLES TAPPED .5125 (MIN) DEEP. THE HOLES SHALL BE EQUALLY SPACED ON A .5688 BASIC DIAMETER WITHIN .005 TRUE POSITION TO PERMIT USE OF AND OPERATION WITH MS25159, MS25160, OR MS90332 GENERATOR AIR INLETS.
2. A PROTECTIVE COVER OF A FLEXIBLE FIRE-RESISTANT AND AIRCRAFT FLUID-RESISTANT MATERIAL SHALL BE PROVIDED FOR THE TERMINAL BLOCK.
- (D) 3. MOUNTING FLANGE, MOUNTING HOLES, AND ROTATION SHALL BE IN ACCORDANCE WITH DRAWING MS1805 (5-INCH).
4. BRUSH ACCESS COVER SHALL BE CAPABLE OF BEING ROTATED TO ANY POSITION.
- (D) 5. THE INTERNAL WIRING SHALL TERMINATE IN STAINLESS STEEL TERMINAL STUDS OF ROCKWELL C-34 MINIMUM HARDNESS IN A TERMINAL BLOCK PROPERLY AND PERMANENTLY MARKED FOR EASY IDENTIFICATION OF THE TERMINALS. THE TERMINAL BLOCK SHALL CONTAIN INSULATING BARRIERS BETWEEN TERMINAL STUDS. THE GENERATOR SHALL BE FURNISHED WITH MS90415-3 NUTS ON TERMINALS "A" AND "D" AND MS90415-6 NUTS ON TERMINALS "F" AND "B".
- (D) 6. THE AIRCRAFT OR ENGINE MANUFACTURER SHALL ALLOW CLEARANCE FOR THE MAXIMUM DIMENSIONS SHOWN ON AND10305.
- (D) 7. THE AIRCRAFT OR ENGINE MANUFACTURER SHALL ALLOW CONNECTING LEAD LENGTH AND BLAST TUBE LENGTH FOR THE LIMITING DIMENSIONS SHOWN ON THIS STANDARD.
- (D) 8. MS DESIGNATIONS SHALL NOT BE SHOWN ON THE GENERATOR UNTIL APPROVAL HAS BEEN RECEIVED FROM THE GOVERNMENT QUALIFICATION AGENCY AND THE GENERATOR FULLY MEETS THE REQUIREMENTS OF THE SPECIFICATION AND STANDARD.
9. IN GENERATORS REQUIRING TEMPERATURE SENSING THE TEMPERATURE SENSING HOLE MUST PENETRATE THE POLE SHOE .281 INCH MINIMUM. WHEN NOT IN USE THE HOLE IS TO BE PLUGGED WITH SCREW MS35266-107.

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## NOTES

1. DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED, TOLERANCES DECIMAL  $\pm .0625$ .
2. SUPERSESION DATA:

AN3623-1A AND AN3633-1 GENERATORS MAY BE REPLACED WITH MS90332-1 GENERATOR PLUS MS25160-1 AIR INLET.

E-1603-1 GENERATORS MAY BE REPLACED WITH MS90332-1 GENERATOR AND MS90333-1 AIR INLET.

IDENTIFICATION OF ITEMS	
MS PART NUMBER	ITEM
MS90332-1	GENERATOR WITHOUT TEMPERATURE SENSING
MS90332-2	GENERATOR INCLUDING TEMPERATURE SENSING
MS90332-3	GENERATOR WITHOUT TEMPERATURE SENSING AND WITH MS25160-1 AIR INLET
MS90332-4	GENERATOR INCLUDING TEMPERATURE SENSING AND MS25160-1 AIR INLET

3. SPLINE POSITION IS LOCATED FOR GENERATORS MATED DIRECTLY TO THE ENGINE ACCESSORY DRIVE PAD WITHOUT UTILIZATION OF AN INTERMEDIATE OAD.
4. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

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DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO 2105

