

**REV.  
A****AS27643**

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ISSUED 1998-04 REVISED 1998-11

PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)

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**AEROSPACE STANDARD**

BEARING, BALL, AIRFRAME,  
ANTI-FRICTION, SELF-ALIGNING,  
DOUBLE ROW, HEAVY DUTY

**AS27643**  
SHEET 1 OF 3

**REV.  
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THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: MIL-B-7949.

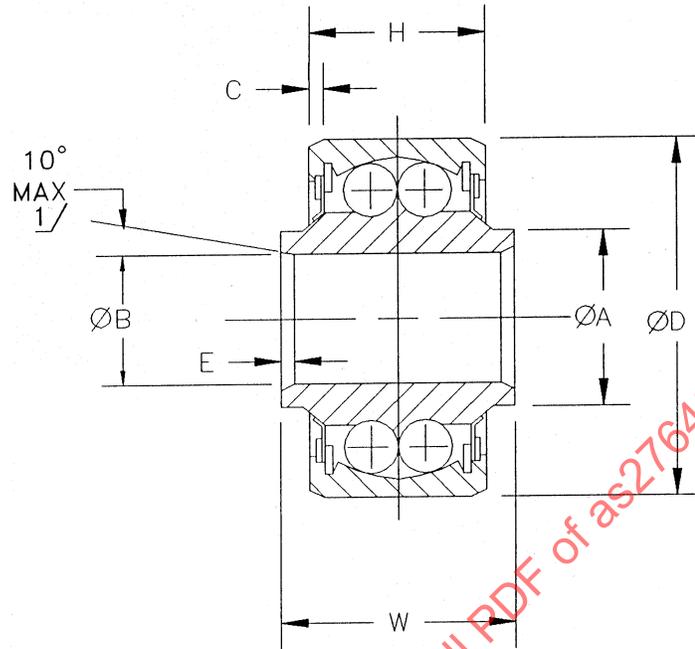


TABLE I. DIMENSIONS AND LOADS

MS DASH NO.	øB	øD	W	H	øA	C	E	LIMIT LOAD RATING	AXIAL INTERNAL CLEARANCE (MAX)	7/		WEIGHT POUNDS (APPROX)		
	BORE	OUTSIDE DIAMETER	WIDTH INNER RING	WIDTH OUTER RING	SHOULDER DIAMETER INNER RING (APPROX)	5/	4/			RADIAL (LB)	THRUST (LB)		RADIAL LOAD RATING (LBS.) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES	
													6/	6/
	+0.000 -0.005	+0.000 -0.005	+0.000 -0.005	+0.000 -0.005										
	3/	2/ 3/	2/	2/										
-3	.1900	.7774	.500	.392	.304	.022	.005	1420	200	.0055	1420	1220	.04	
-4	.2500	.9014	.687	.464	.430	.032	.015	1780	300	.006	1780	1600	.06	
-5	.3125	1.2500	.812	.656	.515	.044	.015	3740	600	.007	3740	3300	.16	
-6	.3750	1.4375	.937	.750	.564			5100	800		4980	4370	.24	
-8	.5000	1.6875	1.000	.812	.775			7120	1000		6340	5570	.36	
-10	.6250	1.9375	1.125	.937	.869			9000	1300		7780	6860	.53	

(TABLE I, CONTINUED)

MS DASH NO.	MAXIMUM STARTING TORQUE (INCH-OZ)	MINIMUM TORQUE TO DISLodge SEAL (IN/LB)
-3	1	8
-4	1	12
-5	2	28
-6	2	45
-8	3	60
-10	3	78

- 1/ THESE BEARINGS ARE INTERNAL SELF-ALIGNING FOR 10° IN EITHER DIRECTION.
- 2/ DIMENSIONS TO BE MET AFTER PLATING.
- 3/ OUT-OF-ROUND TOLERANCES: BORE: +.0002, -.0007; OUTER DIA: +.0005, -.0010.
- 4/ 45° CHAMFER OR A RADIUS GIVING APPROXIMATELY THE SAME FILLET CLEARANCE WILL BE ACCEPTABLE.
- 5/ 45 CHAMFER OR A RADIUS GIVING APPROXIMATELY THE SAME GRIP FOR STAKING THE BEARING IN THE HOUSING WILL BE ACCEPTABLE.
- 6/ CASE I - LOAD FIXED WITH RESPECT TO OUTER RING.  
CASE II - LOAD FIXED WITH RESPECT TO INNER RING.
- 7/ THESE RATINGS ARE FOR OPERATION UP TO 250°F. FOR OPERATION UP TO 350°F, THE RATINGS SHALL BE REDUCED BY 20%.

(F) DENOTES CHANGE