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REV. A	Submitted for recognition as an American National Standard		Form Approved OMB No. 0704-0188
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AS27643	SAENORM.COM : Click to view the full PDF of as27643a		
ISSUED 1998-04 REVISED 1998-11			
PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)			
 SAE The Engineering Society For Advancing Mobility Land Sea Air and Space® 400 Commonwealth Drive, Warrendale, PA 15096-0001		AEROSPACE STANDARD BEARING, BALL, AIRFRAME, ANTI-FRICTION, SELF-ALIGNING, DOUBLE ROW, HEAVY DUTY	AS27643 SHEET 1 OF 3
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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.

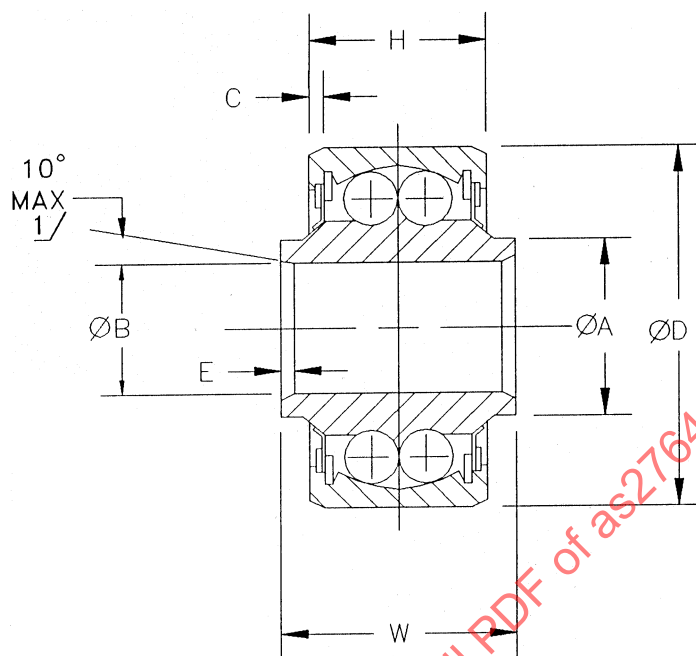


TABLE I. DIMENSIONS AND LOADS

MS DASH NO.	ØB	ØD	W	H	ØA	C	E	LIMIT LOAD RATING		AXIAL INTERNAL CLEARANCE (MAX)	Z/ RADIAL LOAD RATING (LBS.) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES		WEIGHT POUNDS (APPROX)
	BORE	OUTSIDE DIAMETER	WIDTH INNER	WIDTH OUTER	SHOULDER DIAMETER	5/ OUTER RING	4/ INNER RING				6/ CASE I	6/ CASE II	
	RING	RING	INNER RING (APPROX)	CORNER CHAMFER	CORNER CHAMFER								
	+ .0000 - .0005	+ .0000 - .0005	+ .000 - .005	+ .000 - .005	RING (APPROX)	CORNER CHAMFER	CORNER CHAMFER	+ .015 - .000	+ .015 - .000				
	3/ 2/ 3/	2/ 3/	2/	2/		- .000	- .000	(LB)	(LB)				
-3	.1900	.7774	.500	.392	.304	.022	.005	1420	200	.0055	1420	1220	.04
-4	.2500	.9014	.687	.464	.430	.032		1780	300		1780	1600	.06
-5	.3125	1.2500	.812	.656	.515			3740	600		3740	3300	.16
-6	.3750	1.4375	.937	.750	.564		.044	5100	800	.006	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