

SAE-AS27640

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Custodians:

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(Project 3110-1084)

Review Activities:

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FSC 3110

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AEROSPACE STANDARD

BEARING, BALL, AIRFRAME,
ANTI-FRICTION, HEAVY DUTY

AS27640
SHEET 1 OF 3

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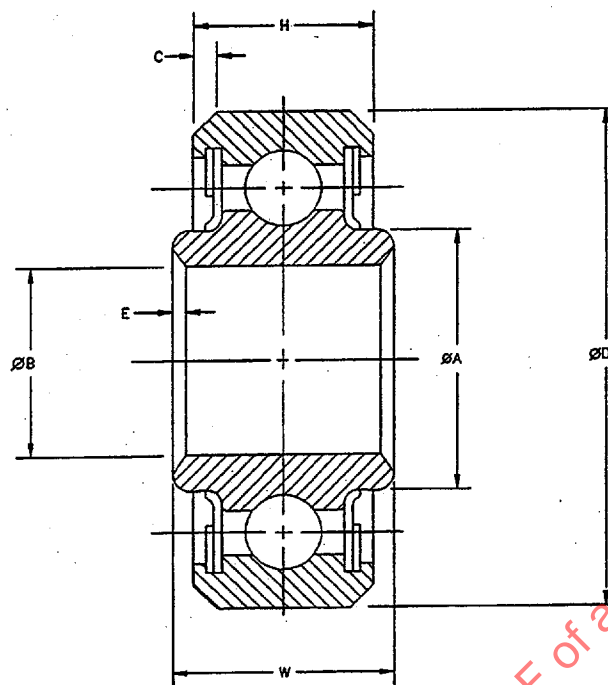


TABLE I. DIMENSIONS AND LOADS

MS DASH NO.	2/ BORE	ØD OUTSIDE DIAMETER	WIDTH INNER	WIDTH OUTER	ØA SHOULDER DIAMETER	4/ INNER RING CORNER CHAMFER (APPROX)	E	C	THRUST LIMIT LOAD RATING	5/ RADIAL LOAD RATING (LBS.) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES	6/ WEIGHT POUNDS (APPROX)	MAXIMUM STARTING TORQUE (INCH-OZ)	
	1/ 2/	1/	1/	INNER RING	INNER RING CORNER	3/ OUTER RING CORNER CHAMFER	OUTER LIMIT LOAD RATING						
							LBS						
	CASE I	CASE II											
-3A	.1900	.6250	.245	.203	.280	.005	.010	1560	700	1520	1260	.01	1
-3	.1900	.7774	.297	.270	.331		.022	1880	900	1700	1450	.03	1
-4	.2500	.9014	.484	.335	.390		.032	2680	1200	2410	2030	.04	1
-6	.3125	1.2500	.558	.375	.469	5620		2500	4900	3970	.09	1	
-6	.3750	1.4375	.620	.469	.591	7910		3500	6540	5410	.15	2	
-8	.5000	1.6875	.620	.500	.768	.044		11800	5200	9320	7700	.21	3
-10	.6250	1.9375	.620	.500	.850		14100	6200	11000	9060	.28	3	

1/ DIMENSIONS TO BE MET AFTER PLATING.

2/ OUT-OF-ROUND TOLERANCES: BORE: +.0002, -.0007; OUTER DIA: +.0005, -.0010.

3/ 45° CHAMFER OR A RADIUS GIVING APPROXIMATELY THE SAME GRIP FOR STAKING THE BEARING IN THE HOUSING WILL BE ACCEPTABLE.

4/ 45° CHAMFER OR A RADIUS GIVING APPROXIMATELY THE SAME FILLET CLEARANCE WILL BE ACCEPTABLE.

5/ CASE I - LOAD FIXED WITH RESPECT TO OUTER RING.

6/ 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 CHANGES