

**REV.
B**

AS27641

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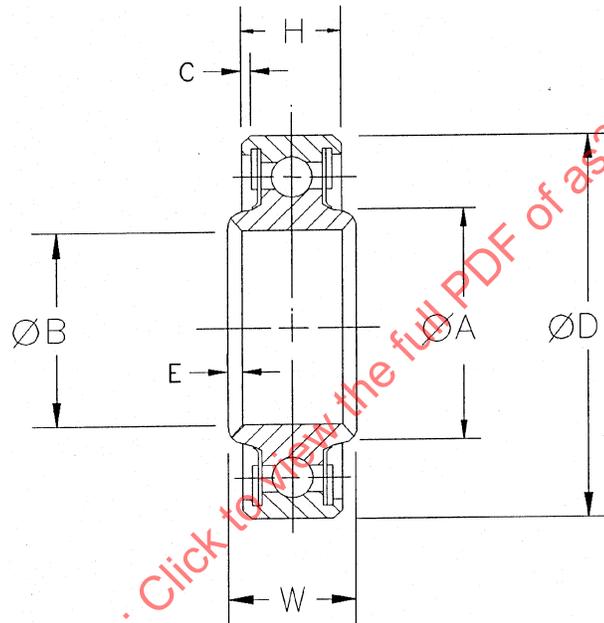


FIGURE 1

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ISSUED 1998-04 REVISED 2002-06

PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)



AEROSPACE STANDARD

(R) BEARING, BALL, AIRFRAME, ANTI-FRICTION,
INTERMEDIATE DUTY

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TABLE 1 - DIMENSIONS AND LOADS

MS DASH NO.	BEARING PART NO. REF. ONLY	øB		W		H		øA		E		C		THRUST LIMIT LOAD RATING LB	5/		Z/ MAXIMUM STARTING TORQUE (IN-OZ)
		BORE 2/	OUTSIDE DIAMETER 1/	INNER RING 1/	OUTER RING 1/	SHOULDER DIAMETER INNER RING (APPROX)	INNER RING CORNER CHAMFER 4/	OUTER RING CORNER CHAMFER 3/	RADIAL LIMIT LOAD RATING LB	RADIAL LOAD RATING LB	RADIAL LOAD RATING (LB) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES	WEIGHT POUNDS (APPROX)					
-3	KP3A	+0.000 -0.005	.6250 .297	+0.000 -0.005	.297 .281	+0.000 -0.005	.234 .219	.297 .380	.005	.015 -.000	.016	1560 1880	700 900	1500 1690	1250 1450	.01 .02	1.0 1.5
-4	KP4A	.3125 .3750	.8125 .8750	.297 .313	.297 .313	.234 .250	.234 .250	.415 .495	.015	.015 -.000	.016	2190 2500	1000 1100	1820 1920	1600 1710	.02 .03	1.5 2.0
-5	KP5A	.5000	1.1250	.375	.375	.313	.313	.616	.015	.015	.016	3910	1700	2870	2550	.05	2.5
-6	KP6A	.6250	1.3750	.406	.406	.344	.344	.768	.015	.015	.016	6700	3000	4980	4360	.08	3.0
-8	KP8A	.7500	1.6250	.437	.437	.375	.375	.919	.015	.015	.016	8790	3900	5980	5320	.13	3.0
-10	KP10A	1.0000	2.0000	.500	.500	.438	.438	1.241	.015	.015	.016	11900	5200	7070	6400	.22	4.0
-12	KP12A	1.2500	2.2500	.500	.500	.438	.438	1.478	.015	.015	.016	13800	6100	7400	6810	.26	5.0

- 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.
CASE II = LOAD FIXED WITH RESPECT TO INNER RING.
- 6/ THESE RATINGS ARE FOR OPERATION UP TO 250 °F. FOR OPERATION UP TO 350 °F, THE RATINGS SHALL BE REDUCED BY 20%.
- 7/ SPECIFIED LIMITS ARE FOR BEARINGS LUBRICATED WITH MIL-PRF-81322 GREASE. FOR BEARINGS LUBRICATED WITH MIL-PRF-23827 GREASE, THE TORQUE LIMIT SHALL BE THE SPECIFIED VALUE IN THE TABLE MULTIPLIED BY 1.2.