

REV.
B

AS27641

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: SAE AS7949.

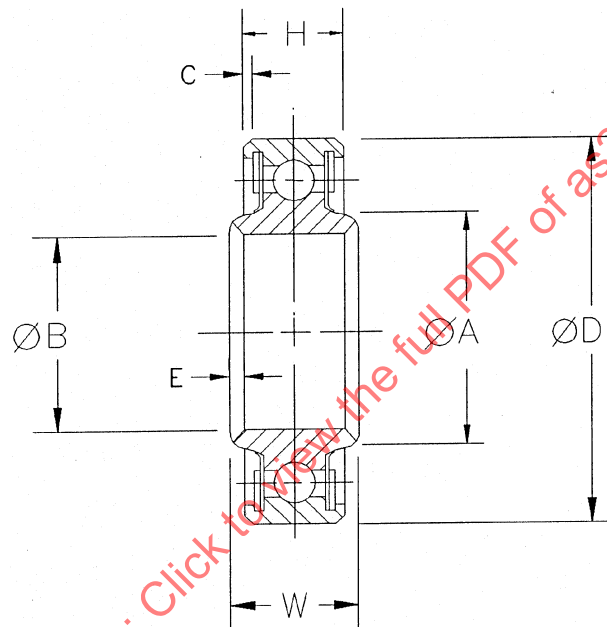


FIGURE 1

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PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)

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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	øD	W	H	øA	E		C	RADIAL LIMIT LOAD RATING LB	THRUST LIMIT LOAD RATING LB	5/ RADIAL LOAD RATING (LB) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES		7/ MAXIMUM STARTING TORQUE (IN-OZ)	
							2/ BORE + .0000 - .0005	1/ OUTSIDE DIAMETER + .0000 - .0005				3/ INNER RING CORNER CHAMFER + .015 - .000	4/ OUTER RING CORNER CHAMFER + .015 - .000		CASE I
		5/ 1/ 2/ + .0000 - .0005	6/ 3/ 4/ + .0000 - .0005	7/ 5/ 6/ + .0000 - .0005	8/ 7/ 8/ + .0000 - .0005	9/ 9/ 9/ + .0000 - .0005			10/ 10/ 10/ + .0000 - .0005						
-3	KP3A	.1900	.6250	.297	.234	.297	.005		.016	1560	700	1500	1250	.01	1.0
-4	KP4A	.2500	.7500	.281	.219	.380	.005			1880	900	1690	1450	.02	1.5
-5	KP5A	.3125	.8125	.297	.234	.415	.015			2190	1000	1820	1600	.02	1.5
-6	KP6A	.3750	.8750	.313	.250	.495	.015		.032	2500	1100	1920	1710	.03	2.0
-8	KP8A	.5000	1.1250	.375	.313	.616	.015			3910	1700	2870	2550	.05	2.5
-10	KP10A	.6250	1.3750	.406	.344	.768	.015			6700	3000	4980	4360	.08	3.0
-12	KP12A	.7500	1.6250	.437	.375	.919	.015		.032	8790	3900	5980	5320	.13	3.0
-16	KP16A	1.0000	2.0000	.500	.438	1.241	.015			11900	5200	7070	6400	.22	4.0
20	KP20A	1.2500	2.2500	.500	.438	1.478	.015			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.