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REV.
B

AS27647

Federal Supply Class
3110

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.

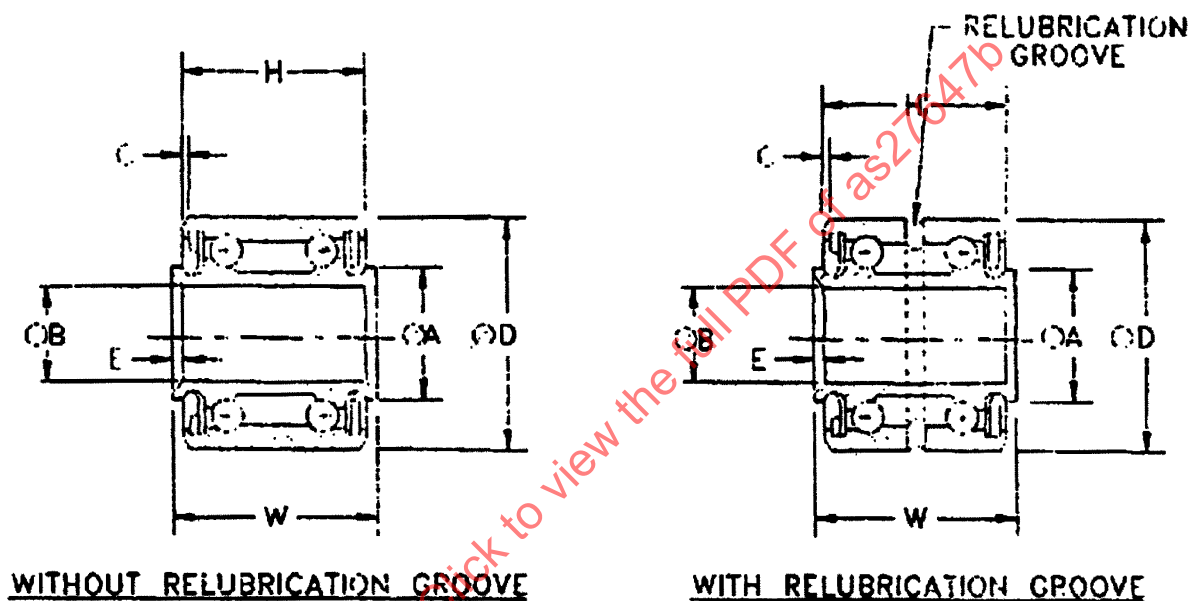


FIGURE 1

PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
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AEROSPACE STANDARD

(R) BEARING, BALL, AIRFRAME,
ANTI-FRICTION, EXTRA WIDE,
DOUBLE ROW, INTERMEDIATE DUTY

AS27647
SHEET 1 OF 3

**REV.
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ISSUED 1998-04 REVISED 2002-06

TABLE 1 - DIMENSIONS AND LOADS

MS DATA NO.	BEARING PART NO. REF. ONLY Relubrication Groove	BEARING PART NO. REF. ONLY Relubrication Groove	1/2 BORE	1/2 OUTSIDE DIAMETER	1/2 WIDTH INNER RING	1/2 WIDTH OUTER RING	1/2 SHOULDER DIAMETER INNER RING (APPROX)	1/2 INNER RING CORNER CHAMFER	3/4 OUTER RING CORNER CHAMFER	RADIAL LIMIT LOAD RATING LBS
-1A	WITHOUT	WITH	+ .0000 - .0005	+ .0000 - .0005	+ .000 - .005	+ .000 - .005		+ .015 - .000	+ .015 - .000	1400
-4	DW4K2	GDW4K2	.2500	.6250	.562	.500	.338			2700
-5	DW4K	GDW4K	.2500	.7500	.875	.750	.372			5140
-6	DW5	GDW5	.3125	.8750	.938	.813	.466	.005		8440
-8	DW6	GDW6	.3750	1.0625	1.188	1.043	.570			15320
-8	DW8	GDW8	.5000	1.4375	1.500	1.3750	.709		.032	

TABLE 1 - (CONTINUED)

MS DATA NO.	THRUST LIMIT LOAD RATING LBS	1/2 RADIAL LOAD RATING (LBS) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES	1/2 APPROXIMATE WEIGHT (LBS)	1/2 MAXIMUM STARTING TORQUE (INCH-OS)
		CASE I	CASE II	
-1A	500	1050	960	1
-4	900	2070	1850	1
-5	1600	2600	2320	1.5
-6	2600	4220	3740	2.5
-8	4700	7610	6520	2.5

1/ DIMENSIONS TO BE MET AFTER PLATING.

2/ OUT-OF-ROUND TOLERANCES: BORE: +.0002, -.0007;

OUTER DIAMETER: +.0005, -.0010.

3/ A RADIUS GIVING APPROXIMATELY THE SAME GRIP FOR STAKING THE BEARING IN THE HOUSING IS ACCEPTABLE IN LIEU OF A 45° FLAT SURFACE CHAMFER.

4/ A RADIUS GIVING APPROXIMATELY THE SAME FILLET CLEARANCE IS ACCEPTABLE IN LIEU OF A 45° FLAT SURFACE CHAMFER.

5/ CASE I = LOAD IS FIXED WITH RESPECT TO THE OUTER RING.

CASE II = LOAD IS FIXED WITH RESPECT TO THE 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.