SAE-AS27647

Adopting Activity

(Project 3110-1091)

Navy - AS

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PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)

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N T E R N A T I O N A L

## AEROSPACE STANDARD

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

AS27647 SHEET 1 OF 3

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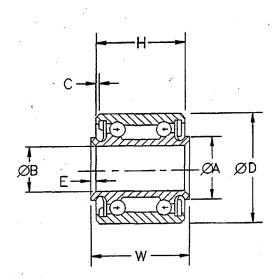
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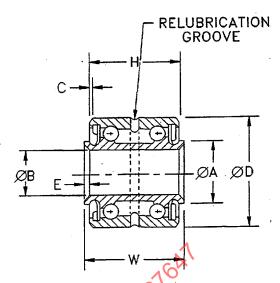
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## TARLET DIMENSIONS AND LOADS

	TABLE I. DIMIENSIONS AND LUADS													
	øB	øD	W	Н	øA	E	С			5/	6/			
	2/	OUTSIDE	WIDTH	WIDTH	SHOULDER	4/	3/		111	RADIA	L LOAD			
мѕ	BORE	DIAMETER	INNER	OUTER	DIAMETER	INNER	OUTER	RADIAL	THRUST	RATING (LBS.)			MAXIMUM	
DASH		2/1/	RING	RING	INNER	RING	RING	LIMIT	LIMIT	FOR AVERAGE LIFE		APPROXIMAT E	STARTING	
NO.			1/	1/	RING	CORNER	CORNER	LOAD	LOAD	OF 10,000 COMPLETE		WEIGHT	TORQUE	
					(APPROX)	CHAMFER	CHAMPER	RATING	RATING	90° CYCLES		(LBS)	(INCH-OZ)	
	+.0000	+.0000	+-000	+.000		+.015	<b>4</b> ,015	LBS	LBS					
	0005	0005	005	005		000	000			CASE I	CASE II			
-4A	.2500	.6250	.562	.500	.338	i,C		1400	500	1050	960	.025	1	
-4	.2500	.7500	.875	.750	.372	$C_{j,i}$	010	2700	900	2070	1850	.04	1	
<b>-</b> 5	.3125	.8750	.938	.813	-466	.005	.016	5140	1600	2600	2320	.07	1	
-6	.3750	1.0625	1.188	1.063	.570			8440	2600	4220	3740	.12	_ 2	
-8	.5000	1.4375	1.500	1.370	.709		.032	15520	4700	7610	6520	.29	2	

- 1) DIMENSIONS TO BE MET AFTER PLATING.
  2) OUT-OF-ROUND TOLERANCES: BORE: +.0002, -.0007;
  + OUTED 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 II = LOAD IS FIXED WITH RESPECT TO THE OUTER RING.
  6) THESE RATINGS ARE FOR OPERATION UP TO 250°F, FOR OPERATION UP TO 350°F, THE RATINGS SHALL BE REDUCED BY 20%.

- E DENOTES CHANGE

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## **AEROSPACE STANDARD**

BEARING, BALL, AIRFRAME, ANTI-FRICTION, EXTRA WIDE. DOUBLE ROW, INTERMEDIATE DUTY

**AS27647** SHEET 2 OF 3