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AS21443™/1

FEDERAL SUPPLY CLASS
3110

RATIONALE

THIS STANDARD DEFINES A CORROSION RESISTANT NITROGEN STEEL (CREN) VERSION OF THE AS21443 AIRFRAME PULLEY BEARING SERIES.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7949.

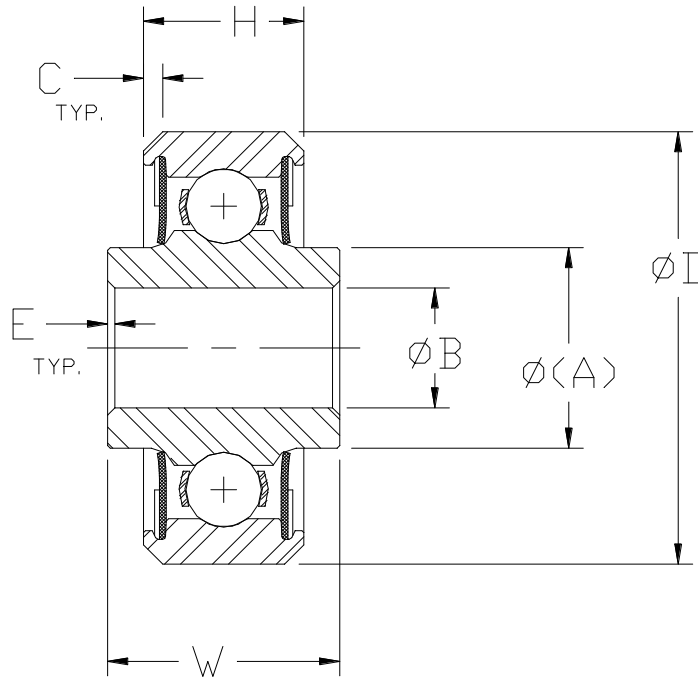
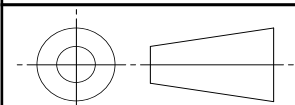


FIGURE 1 - PART CONFIGURATION

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THIRD ANGLE PROJECTION



CUSTODIAN: ACBG

PROCUREMENT SPECIFICATION: AS7949



AEROSPACE STANDARD

BEARING, BALL, AIRFRAME
ANTI-FRICTION, PULLEY
CORROSION RESISTANT NITROGEN STEEL (CREN)

AS21443™/1
SHEET 1 OF 4

Documents

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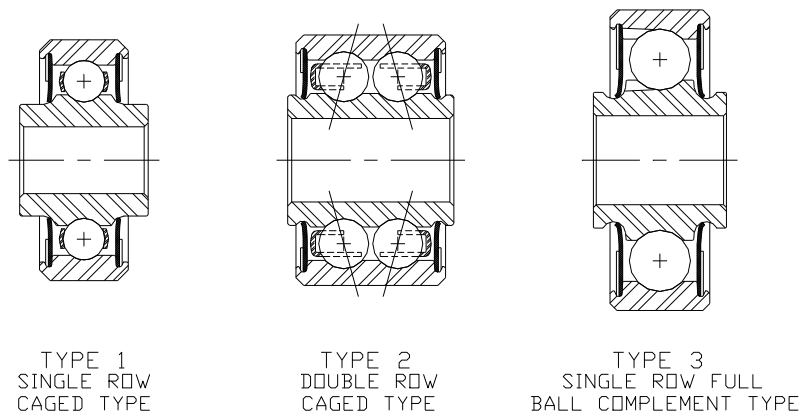


FIGURE 2 - PART CONFIGURATION TYPES

TABLE 1 - DIMENSIONS AND LOADS

AS DASH NO.	TYPE SEE FIGURE 2	øB BORE +.0000 -.0005 2/	øD OUTSIDE DIAMETER +.0000 -.0005 1/ 2/	W WIDTH INNER RING +.000 -.005 1/	H WIDTH OUTER RING +.000 -.005 1/	(øA) SHOULDER DIAMETER INNER RING (REF)	E 4/ CORNER CHAMFER X 45°		RADIAL LIMIT LOAD RATING POUND	THRUST LIMIT LOAD RATING POUND	5/ RADIAL LOAD RATING (LB) FOR AVERAGE LIFE OF 10000 COMPLETE 90° CYCLES		WEIGHT POUNDS (APPROX)
							INNER RING BORE +.015 -.000	OUTER RING OD +.015 -.000			CASE I	CASE II	
-3A	TYPE 1	.1900	.6250	.297	.234	.297	.005	.016	705	385	705	705	.01
-3B	TYPE 1	.1900	.7774	.297	.270	.332	.005	.024	1090	600	1090	1090	.02
-4A	TYPE 1	.2500	.7500	.438	.312	.372	.005	.016	1090	600	1090	1090	.03
-4B	TYPE 1	.2500	.8750	.438	.375	.423	.005	.022	1710	800	1710	1710	.04
-4C	TYPE 1	.2500	.9014	.484	.335	.390	.005	.034	1710	800	1710	1710	.04
-5A	TYPE 1	.3125	.8750	.625	.375	.455	.005	.022	1710	800	1710	1710	.04
-5B	TYPE 2	.3125	.9375	.625	.563	.455	.005	.022	3420	1030	3250	2800	.07
-8	TYPE 3	.5000	1.6875	.750	.563	.768	.005	.032	11800	5200	9320	7730	.24
-10	TYPE 1	.6250	1.1875	.438	.375	.769	.005	.022	2440	1100	2420	2180	.06

1/ ALL DIMENSIONS TO BE MET AFTER SURFACE TREATMENT.

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 WILL BE ACCEPTABLE.

4/ 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%.



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