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THIRD ANGLE PROJECTION

ISSUED

CUSTODIAN: ACBG/ROLLING ELEMENT SUBCOMMITTEE



AEROSPACE STANDARD

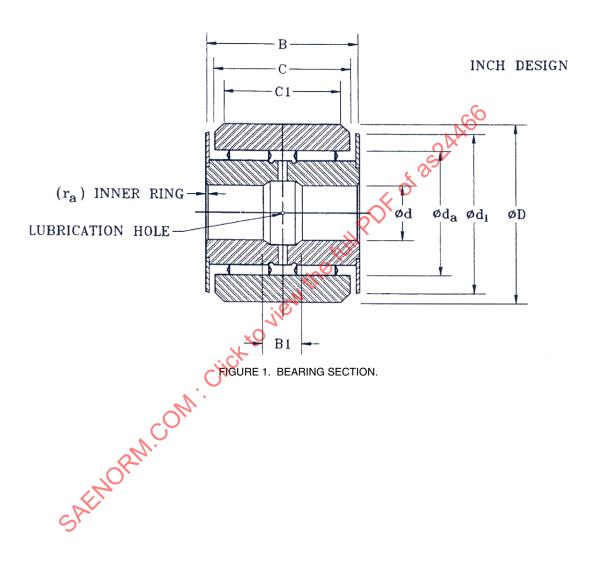
BEARING, ROLLER, NEEDLE-DOUBLE ROW, HEAVY DUTY, TRACK ROLLER, TYPE VI,

AS24466 SHEET 1 OF 6

ANTIFRICTION, INCH

THIS SPECIFICATION SHEET IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DoDISS) SPECIFIED IN THE SOLICITATION: MIL-B-3990.



INACTIVE FOR NEW DESIGN: USE MS21439

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TABLE I. Bearing properties.

DIMENSIONS IN INCHES

		_																
17460	MASS	(ALTROA)				LB		0.228	0.416	0.693	1.08	1.55	2.20	3.10	4.12	5.80	7.00	
70,40	IKACK	CAF.	ACITY	40HRC		LBF		2600	4250	5650	7950	10650	13200	17300	21200	27000	30400	
3/	LOAD	KALING	AS A	TRACK	ROLLER	LBF		5370	9370	15000	21400	28900	33600	44600	35600	00069	16600	
77	LIMIT	LOAD	RATING		LBF			7130	12500	19900	28500	38500	44900	59500	71300	92000	102000	
	p q s	CLAMP-	ING	DIA.	MIN			0.672	0.891	1.109	1.281	1.469	1.578	1.844	1.984	2.281	2.562	
	14 100	IOIAL	RADIAL	CLEAR-	ANCE	MAX		0.0014	0.0014	0.0014	0.0014	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	
:	r 1 1/	FILLEI			MAX		-	0.022	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	
,	Bl	LUBKI-	CATION	GROOVE	WIDTH			0.188	0.250	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	S
	M d 1	WASHER	OUTSIDE	DIA				1.000	1.250	1.500	1.750	2.000	2.215	2.500	2.750	3.187	3.625	
	ú	TRACK	CONT.	ACT	WIDTH		1	0.750	0001	1.125	1.375	1.625	1.794	2.044	2.294	2.544	2.544	
	0	COLER	RING	WIDEH				0.875	1.125	1.375	1.625	1.875	2.049	2.299	2.549	2.792	2.799	
1	В	OVER	ALL		WIDTH			1.000	1 250	1.500	1.750	2.000	2.250	2.500	2.750	3.000	3.000	
	ØD	OUTER	RING	OTTENDE	DIA			1.1250	1 3750	1,6250	1.8750	2.1250	2.3750	2.7500	3.0000	3.4375	3.8750	
	PØ	BORE						0.3750	0 2000	0.5250	0.7500	0.8750	1,0000	1 2500	1 5000	1,7500	2.0000	_
		DASH	NO					9	0	9 -	-12	.14	-16	-20	27	-28	-32	

1/ The chamfer on the bearing shall clear the maximum fillet radius given in the table. However, this specification does not control bearing chamfer contours.

the subsequent functioning of the bearing. The ultimate or static fracture baadrating shall be not less than 1.5 times the limit The limit load rating listed can be defined as the maximum radial load which can be applied to a bearing without impairing load rating. 7

3/ The load rating as a track roller is the load the bearing will carry as a track roller fola L-10 life of 20,000 revolutions.

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TABLE II. Bearing properties.

DIMENSIONS IN MILLIMETERS

DASH Θd d DASH DASH C C I DASH DA I DASH FILLET FILLET FILLET TOTAL TOTAL CLAMP I DAD I DA
SOUTH SOUT
Ødd ØD D B C C ₁ Ød ₁ B ₁ r ₁ I/I TotAL CLAMP-LOAD LUBRI-LET TOTAL CLAMP-LOAD LUBRI-LET TOTAL CLAMP-LOAD LUMIT BORE RING ALL RING CONTRACT OUTSIDE CATTON CLEAR-DIA-CLAMP-LOAD LOAD DIA. WIDTH WIDTH MAX ANCE MIN M 9.325 28.575 25.40 22.22 19.05 25.40 4.78 0.6 0.036 17.07 31800 12.700 34.925 31.75 28.58 25.40 4.78 0.6 0.036 17.07 31800 15.50 34.925 31.75 28.58 25.40 4.78 0.6 0.036 22.63 53.50 15.50 41.22 28.58 25.40 4.78 9.51 0.8 0.036 22.63 53.54 12700 15.50 47.62 41.28 34.92 53.29 45.52 0.8
Ød ØD b B course C ci guide C ci guide C ci di guide Bi course Γillet course CICAMP- CATION BORE RING ALL RING CONTRIDE CATION CATION CLEAR- DIA. OUTSIDE ALL RING CONTRIDE CATION CLEAR- DIA. DIA. DIA. MIDTH MIDTH DIA. MIDTH MAX ANCE MIN 12.700 34.925 23.75 22.22 1905 25.40 4.78 0.6 0.036 17.07 15.700 34.925 31.75 28.58 28.54 38.10 9.51 0.8 0.036 22.63 15.505 47.625 44.45 41.28 34.92 28.58 38.80 9.52 0.8 0.036 22.63 25.400 60.325 57.15 41.28 34.92 44.45 9.52 0.8 0.036 32.54 25.400 66.325 58.50 68.83 64.45 9.52 0.8
Ødd ØD D B C C ₁ Ødd ₁ B ₁ Γ ₁ I/J TOTAL BORE OUTSIDE ALL RING CONTACT OUTSIDE CATION CATION CLEAR-ADIAL OUTSIDE ALL RING CONTACT OUTSIDE CATION CLEAR-ADIAL CLEAR-ADIAL DIA. WIDTH WIDTH DIA. WIDTH MAX ANCE 12.700 34.925 23.40 22.22 12.740 4.78 0.6 0.036 12.700 34.925 31.75 28.58 25.40 22.540 4.78 0.6 0.036 15.875 41.28 44.45 41.28 34.92 44.45 9.51 0.8 0.036 15.875 47.625 44.45 41.28 36.80 47.62 44.45 9.52 0.8 0.036 22.250 58.50 58.50 58.39 51.92 53.98 9.52 0.8 0.038 25.400 66.35 58.
Ødd ØD D B C C ₁ Ødd ₁ B ₁ Γ ₁ IJ BORE OUTER TRACK WASHER LUBBI- FILLET RING ALL RING CONTACT OUTSIDE CATION OUTSIDE WIDTH WIDTH DIA- WIDTH MAX 12.700 34.925 25.40 22.22 18.05 25.40 4.78 0.6 12.700 34.925 31.75 28.58 28.54 38.10 9.51 0.8 12.700 34.925 31.75 28.58 28.54 38.10 9.51 0.8 12.700 34.925 31.75 28.58 28.58 38.10 9.51 0.8 15.875 47.625 44.45 41.28 34.92 44.45 9.52 0.8 22.20 53.975 50.80 47.62 41.28 36.80 9.52 0.8 38.100 76.200 69.850 64.74 58.27 6.8 9.52 </td
Ødd ØD B C C ₁ Ød d ₁ B ₂
Ødd ØD D B C C ₁ Ød ₁ BORE OUTER TRACK WASHER RING ALL WIDTH OUTSIDE OUTSIDE WIDTH DIA. DIA. WIDTH DIA. 12.700 34.925 31.75 12.700 34.925 31.75 15.875 4.1.27 38.10 15.875 4.1.27 34.12 15.875 4.1.28 34.92 15.875 4.1.28 34.92 15.875 50.80 47.62 44.45 41.28 34.92 44.45 41.28 34.92 22.20 45.57 53.98 25.40 60.325 57.15 52.04 44.45 41.28 34.92 44.45 25.40 66.325 57.15 52.04 31.75 52.04 45.57 53.98 31.75 69.85 64.74 58.27 50.80 70.09
Solution Solution
Solution Solution
Solution Solution
BORE RING OUTER COUTER COUTSIDE BORE 12.700 34.925 12.8575 19.050 47.625 22.250 60.325 38.100 76.200 44.450 87.312 50.800 98.425
Ød BORE 12.700 11.873 19.873 19.873 19.873 19.873 19.873 19.873 19.873 22.239 22.239 24.450 38.100 44.450 50.800
DASH NO. -6 -8 -10 -12 -14 -16 -20 -24 -28 -33

1/ The chamfer on the bearing shall clear the maximum fillet radius given in the table. However, this specification does not control

bearing chamfer contours.

The limit load rating listed can be defined as the maximum radial load which can be applied to a bearing without impairing the subsequent functioning of the bearing. The ultimate or static fracture load rating shall be not less than 1.5 times the limit load rating. 7

3/ The load rating as a track roller is the load the bearing will carry as a track roller for a L-10 life of 20,000 revolutions.

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