



PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 10:05 (UTC)



7020A5

Standard Series High Precision Angular Contact Ball Bearings



Parts Number

7020A5TRV1VSULP3

Boundary Dimensions

d	100	mm	Bore diameter
D	150	mm	Outside diameter
B	24	mm	Width
r(min.)	1.5	mm	Chamfer Dimension
r1(min.)	1	mm	Chamfer Dimension

Basic Load Ratings

Cr	75.0	kN	Basic Dynamic Load Rating
C0r	73.5	kN	Basic Static Load Rating

Speeds

Grease	8000	min-1	Limiting Speed
Oil (Oil-air)	12000	min-1	Limiting Speed

Dimensions

	A5: 25°		Contact Angle
a	41.1	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	109	mm	Diameter of Shaft Abutment
Da(max.)	141	mm	Diameter of Housing Abutment
Db(max.)	144	mm	Diameter of Housing Abutment
ra(max.)	1.5	mm	Radius of Shaft or Housing Fillet
rb(max.)	0.8	mm	Radius of Shaft or Housing Fillet

Performance

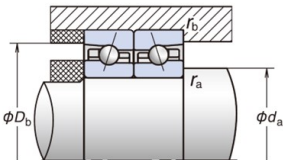
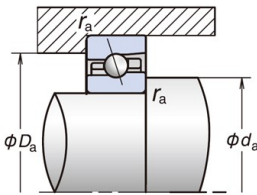
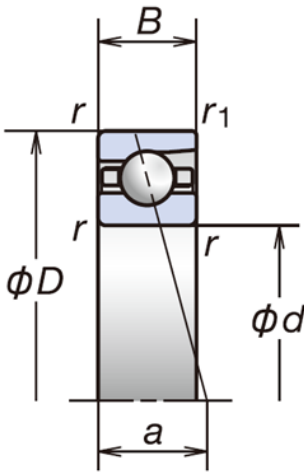
Pa	57.5	kN	Permissible Axial Load
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	434N	236N/μm	-7μm
L	837N	300N/μm	-13μm
M	2009N	418N/μm	-26μm
H	3948N	549N/μm	-42μm

Additional information

6.7	g/brg	Recommended Grease Quantities
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Mass

1.45	kg	Mass(approx.)
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Table A		EL	L	M	H
	15°	6.5	6.0	5.0	4.5
	25°	2			
	30°	1.4			

Table B	DBD	DBB
Preload factor	1.36	2
Axial rigidity	1.48	2
Radial rigidity	1.54	2

Calculation of radial rigidity

Multiply axial rigidity by the appropriate factor in Table A.

Calculation of preload and axial rigidity for combined bearings

Multiply by the appropriate factor in Table B. For radial rigidity, multiply the value from Table A with the appropriate factor in Table B.