



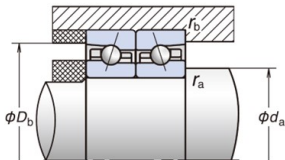
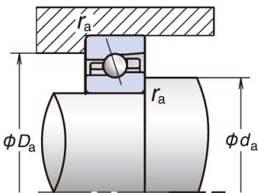
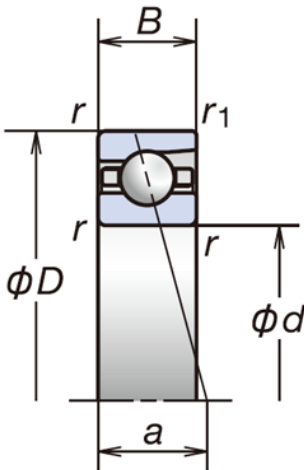
PRODUCT DATASHEET

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7002A5

Standard Series High Precision Angular Contact Ball Bearings



Boundary Dimensions

d	15	mm	Bore diameter
D	32	mm	Outside diameter
B	9	mm	Width
r(min.)	0.3	mm	Chamfer Dimension
r1(min.)	0.15	mm	Chamfer Dimension

Basic Load Ratings

Cr	7.55	kN	Basic Dynamic Load Rating
C0r	3.25	kN	Basic Static Load Rating

Speeds

Grease	42600	min-1	Limiting Speed
Oil (Oil-air)	63900	min-1	Limiting Speed

Dimensions

	A5: 25°		Contact Angle
a	10.0	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	17.5	mm	Diameter of Shaft Abutment
Da(max.)	29.5	mm	Diameter of Housing Abutment
Db(max.)	30.8	mm	Diameter of Housing Abutment
ra(max.)	0.3	mm	Radius of Shaft or Housing Fillet
rb(max.)	0.15	mm	Radius of Shaft or Housing Fillet

Performance

Pa	3.05	kN	Permissible Axial Load
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	16N	33N/μm	1μm
L	35N	43N/μm	-1μm
M	103N	65N/μm	-6μm
H	197N	84N/μm	-11μm

Additional information

	0.17	g/brg	Recommended Grease Quantities
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Mass

	0.030	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.