



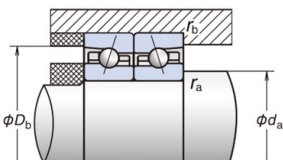
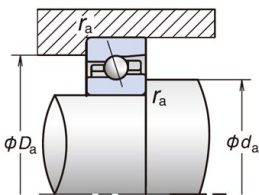
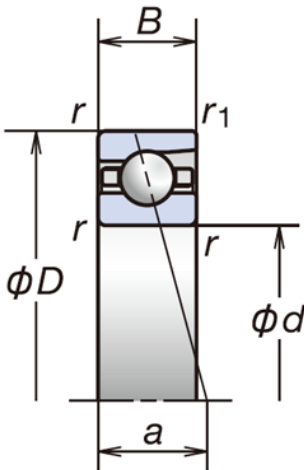
PRODUCT DATASHEET

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



7022A5

Standard Series High Precision Angular Contact Ball Bearings



Boundary Dimensions

d	110	mm	Bore diameter
D	170	mm	Outside diameter
B	28	mm	Width
r(min.)	2	mm	Chamfer Dimension
r1(min.)	1	mm	Chamfer Dimension

Basic Load Ratings

Cr	127	kN	Basic Dynamic Load Rating
C0r	99.0	kN	Basic Static Load Rating

Speeds

Grease	7200	min-1	Limiting Speed
Oil (Oil-air)	10800	min-1	Limiting Speed

Dimensions

	A5: 25°		Contact Angle
a	46.6	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	120	mm	Diameter of Shaft Abutment
Da(max.)	160	mm	Diameter of Housing Abutment
Db(max.)	164	mm	Diameter of Housing Abutment
ra(max.)	2	mm	Radius of Shaft or Housing Fillet
rb(max.)	1	mm	Radius of Shaft or Housing Fillet

Performance

Pa	79.5	kN	Permissible Axial Load
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	604N	258N/μm	-10μm
L	1194N	330N/μm	-18μm
M	2657N	447N/μm	-33μm
H	5250N	588N/μm	-53μm

Additional information

	11	g/brg	Recommended Grease Quantities
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Mass

	1.97	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.