



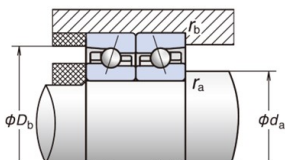
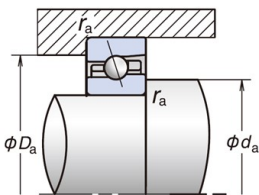
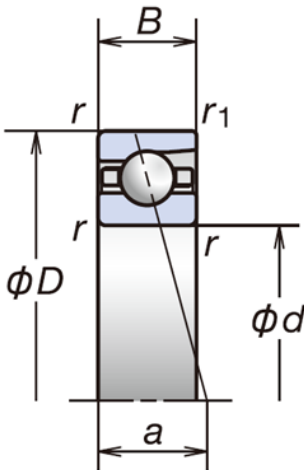
PRODUCT DATASHEET

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7214A5

Standard Series High Precision Angular Contact Ball Bearings



Boundary Dimensions

d	70	mm	Bore diameter
D	125	mm	Outside diameter
B	24	mm	Width
r(min.)	1.5	mm	Chamfer Dimension
r1(min.)	1	mm	Chamfer Dimension

Basic Load Ratings

Cr	95.5	kN	Basic Dynamic Load Rating
C0r	61.5	kN	Basic Static Load Rating

Speeds

Grease	10300	min-1	Limiting Speed
Oil (Oil-air)	15400	min-1	Limiting Speed

Dimensions

	A5: 25°		Contact Angle
a	34.7	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	79	mm	Diameter of Shaft Abutment
Da(max.)	116	mm	Diameter of Housing Abutment
Db(max.)	119	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	49.5	kN	Permissible Axial Load
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	406N	188N/μm	-8μm
L	781N	239N/μm	-15μm
M	1856N	332N/μm	-30μm
H	3690N	438N/μm	-49μm

Additional information

	6.0	g/brg	Recommended Grease Quantities
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Mass

	1.08	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.