



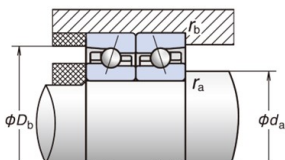
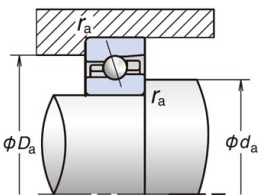
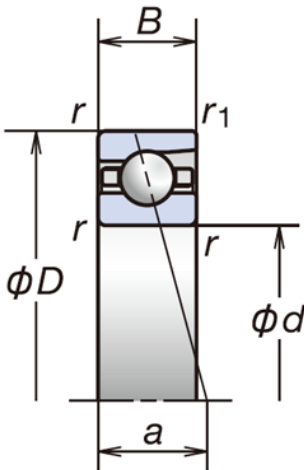
PRODUCT DATASHEET

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7203C

Standard Series High Precision Angular Contact Ball Bearings



Boundary Dimensions

d	17	mm	Bore diameter
D	40	mm	Outside diameter
B	12	mm	Width
r(min.)	0.6	mm	Chamfer Dimension
r1(min.)	0.3	mm	Chamfer Dimension

Basic Load Ratings

Cr	13.7	kN	Basic Dynamic Load Rating
C0r	5.85	kN	Basic Static Load Rating

Speeds

Grease	40400	min-1	Limiting Speed
Oil (Oil-air)	61500	min-1	Limiting Speed

Dimensions

	C: 15°		Contact Angle
a	9.8	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	22	mm	Diameter of Shaft Abutment
Da(max.)	35	mm	Diameter of Housing Abutment
Db(max.)	37.5	mm	Diameter of Housing Abutment
ra(max.)	0.6	mm	Radius of Shaft or Housing Fillet
rb(max.)	0.3	mm	Radius of Shaft or Housing Fillet

Performance

Pa	4.85	kN	Permissible Axial Load
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Calculation factors

f0	13.3		Factor
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	25N	19N/μm	0μm
L	46N	25N/μm	-4μm
M	146N	41N/μm	-16μm
H	296N	59N/μm	-28μm

Additional information

	0.38	g/brg	Recommended Grease Quantities
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Mass

0.065	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.