



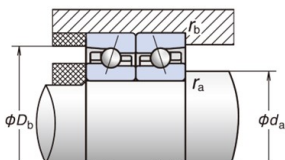
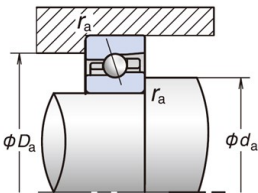
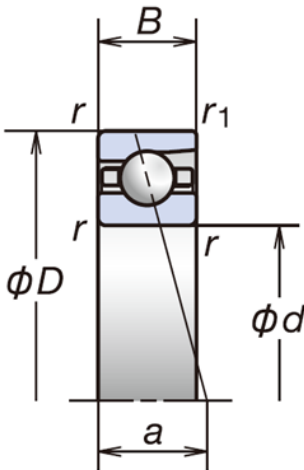
PRODUCT DATASHEET

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7000C

Standard Series High Precision Angular Contact Ball Bearings



Boundary Dimensions

d	10	mm	Bore diameter
D	26	mm	Outside diameter
B	8	mm	Width
r(min.)	0.3	mm	Chamfer Dimension
r1(min.)	0.15	mm	Chamfer Dimension

Basic Load Ratings

Cr	6.70	kN	Basic Dynamic Load Rating
C0r	2.49	kN	Basic Static Load Rating

Speeds

Grease	63900	min-1	Limiting Speed
Oil (Oil-air)	97300	min-1	Limiting Speed

Dimensions

	C: 15°		Contact Angle
a	6.4	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	12.5	mm	Diameter of Shaft Abutment
Da(max.)	23.5	mm	Diameter of Housing Abutment
Db(max.)	24.8	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	2.16	kN	Permissible Axial Load
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Calculation factors

f0	12.6		Factor
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	13N	13N/μm	3μm
L	25N	17N/μm	0μm
M	49N	23N/μm	-5μm
H	96N	31N/μm	-12μm

Additional information

	0.12	g/brg	Recommended Grease Quantities
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Mass

0.019	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.