



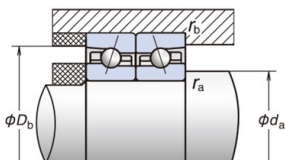
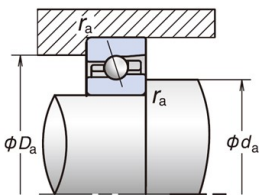
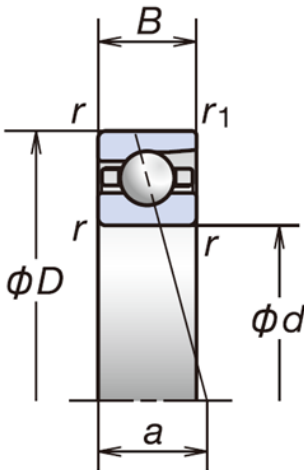
PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 10:14 (UTC)



7211C

Standard Series High Precision Angular Contact Ball Bearings



Boundary Dimensions

d	55	mm	Bore diameter
D	100	mm	Outside diameter
B	21	mm	Width
r(min.)	1.5	mm	Chamfer Dimension
r1(min.)	1	mm	Chamfer Dimension

Basic Load Ratings

Cr	66.5	kN	Basic Dynamic Load Rating
C0r	40.0	kN	Basic Static Load Rating

Speeds

Grease	14900	min-1	Limiting Speed
Oil (Oil-air)	22600	min-1	Limiting Speed

Dimensions

	C: 15°		Contact Angle
a	20.9	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	64	mm	Diameter of Shaft Abutment
Da(max.)	91	mm	Diameter of Housing Abutment
Db(max.)	94	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	27.6	kN	Permissible Axial Load
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Calculation factors

f0	14.5		Factor
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	142N	56N/μm	-8μm
L	289N	74N/μm	-17μm
M	788N	116N/μm	-38μm
H	1554N	163N/μm	-60μm

Additional information

	3.7	g/brg	Recommended Grease Quantities
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Mass

0.601	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.