



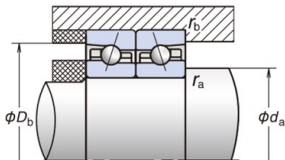
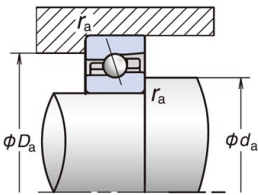
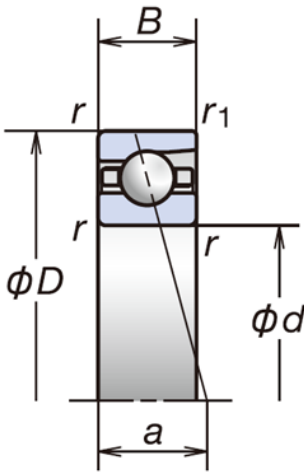
PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 10:28 (UTC)



7915C

Standard Series High Precision Angular Contact Ball Bearings



Boundary Dimensions

d	75	mm	Bore diameter
D	105	mm	Outside diameter
B	16	mm	Width
r(min.)	1	mm	Chamfer Dimension
r1(min.)	0.6	mm	Chamfer Dimension

Basic Load Ratings

Cr	36.0	kN	Basic Dynamic Load Rating
C0r	29.3	kN	Basic Static Load Rating

Speeds

Grease	12800	min-1	Limiting Speed
Oil (Oil-air)	19500	min-1	Limiting Speed

Dimensions

	C: 15°		Contact Angle
a	20.1	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	81	mm	Diameter of Shaft Abutment
Da(max.)	99	mm	Diameter of Housing Abutment
Db(max.)	100	mm	Diameter of Housing Abutment
ra(max.)	1	mm	Radius of Shaft or Housing Fillet
rb(max.)	0.5	mm	Radius of Shaft or Housing Fillet

Performance

Pa	18.0	kN	Permissible Axial Load
----	------	----	------------------------

Calculation factors

f0	16.6		Factor
----	------	--	--------

Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	103N	61N/μm	-4μm
L	190N	79N/μm	-9μm
M	489N	120N/μm	-21μm
H	997N	171N/μm	-35μm

Additional information

	2.1	g/brg	Recommended Grease Quantities
--	-----	-------	-------------------------------



PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 10:28 (UTC)



Mass

0.358	kg	Mass(approx.)
-------	----	---------------

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.