



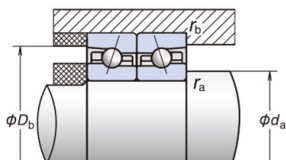
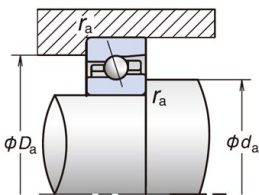
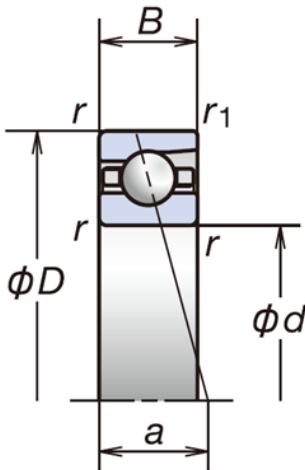
PRODUCT DATASHEET

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7013A5

Standard Series High Precision Angular Contact Ball Bearings



Parts Number

7013A5TRV1VSULP3

Boundary Dimensions

d	65	mm	Bore diameter
D	100	mm	Outside diameter
B	18	mm	Width
r(min.)	1.1	mm	Chamfer Dimension
r1(min.)	0.6	mm	Chamfer Dimension

Basic Load Ratings

Cr	37.0	kN	Basic Dynamic Load Rating
C0r	32.5	kN	Basic Static Load Rating

Speeds

Grease	12200	min-1	Limiting Speed
Oil (Oil-air)	18200	min-1	Limiting Speed

Dimensions

	A5: 25°		Contact Angle
a	28.2	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	72	mm	Diameter of Shaft Abutment
Da(max.)	93	mm	Diameter of Housing Abutment
Db(max.)	95	mm	Diameter of Housing Abutment
ra(max.)	1	mm	Radius of Shaft or Housing Fillet
rb(max.)	0.6	mm	Radius of Shaft or Housing Fillet

Performance

Pa	25.4	kN	Permissible Axial Load
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	209N	157N/μm	-5μm
L	386N	196N/μm	-9μm
M	915N	272N/μm	-18μm
H	1781N	356N/μm	-29μm

Additional information

2.5	g/brg	Recommended Grease Quantities
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Mass

0.455	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.