



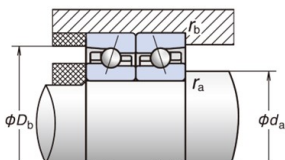
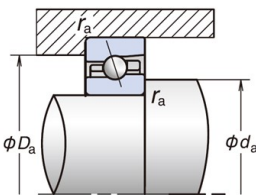
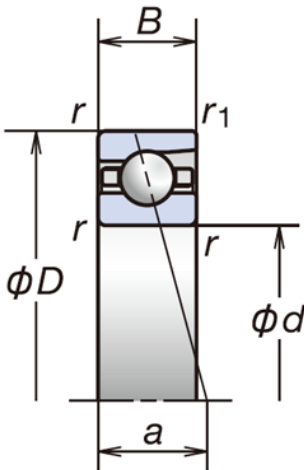
PRODUCT DATASHEET

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7017A5

Standard Series High Precision Angular Contact Ball Bearings



Parts Number

7017A5TRV1VSUMP3

Boundary Dimensions

d	85	mm	Bore diameter
D	130	mm	Outside diameter
B	22	mm	Width
r(min.)	1.1	mm	Chamfer Dimension
r1(min.)	0.6	mm	Chamfer Dimension

Basic Load Ratings

Cr	60.0	kN	Basic Dynamic Load Rating
C0r	55.5	kN	Basic Static Load Rating

Speeds

Grease	9400	min-1	Limiting Speed
Oil (Oil-air)	14000	min-1	Limiting Speed

Dimensions

	A5: 25°		Contact Angle
a	36.1	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	92	mm	Diameter of Shaft Abutment
Da(max.)	123	mm	Diameter of Housing Abutment
Db(max.)	125	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	43.0	kN	Permissible Axial Load
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	305N	196N/μm	-5μm
L	646N	257N/μm	-11μm
M	1487N	353N/μm	-22μm
H	2915N	462N/μm	-36μm

Additional information

4.9	g/brg	Recommended Grease Quantities
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Mass

0.904	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.