



PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 10:04 (UTC)



7016A5

Standard Series High Precision Angular Contact Ball Bearings



Parts Number

7016A5TRV1VSULP3

Boundary Dimensions

d	80	mm	Bore diameter
D	125	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	58.5	kN	Basic Dynamic Load Rating
C0r	52.5	kN	Basic Static Load Rating

Speeds

Grease	9800	min-1	Limiting Speed
Oil (Oil-air)	14700	min-1	Limiting Speed

Dimensions

	A5: 25°		Contact Angle
a	34.9	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	87	mm	Diameter of Shaft Abutment
Da(max.)	118	mm	Diameter of Housing Abutment
Db(max.)	120	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

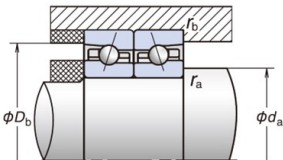
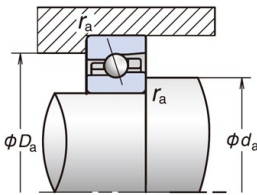
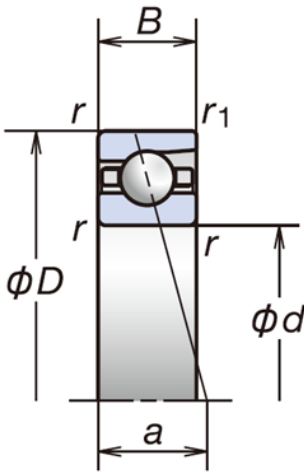
Pa	41.0	kN	Permissible Axial Load
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	345N	198N/μm	-6μm
L	624N	246N/μm	-11μm
M	1513N	345N/μm	-23μm
H	2903N	448N/μm	-37μm

Additional information

4.7	g/brg	Recommended Grease Quantities
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Mass

0.880	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.