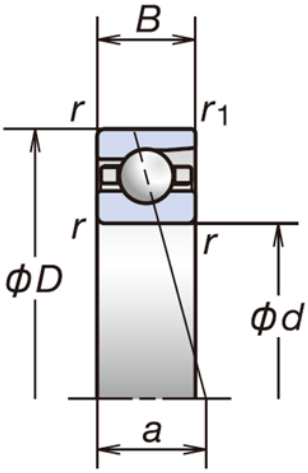
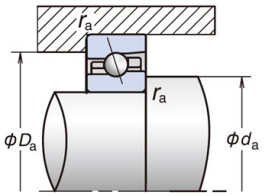
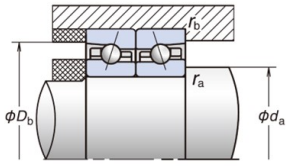
7014A5

Standard Series High Precision Angular Contact Ball Bearings







Parts Number

	7014A5TRV1VSULP3

Boundary Dimensions

d	70	mm	Bore diameter
D	110	mm	Outside diameter
B	20	mm	Width
r(min.)	1.1	mm	Chamfer Dimension
r1(min.)	0.6	mm	Chamfer Dimension

Basic Load Ratings

Cr	46.5	kN	Basic Dynamic Load Rating
C0r	41.0	kN	Basic Static Load Rating

Speeds

Grease	11200	min-1	Limiting Speed
Oil (Oil-air)	16700	min-1	Limiting Speed

Dimensions

	A5: 25°		Contact Angle
a	31.0	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	77	mm	Diameter of Shaft Abutment
Da(max.)	103	mm	Diameter of Housing Abutment
Db(max.)	105	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	32.0	kN	Permissible Axial Load

Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	255N	172N/μm	-6μm
L	500N	220N/μm	-11μm
M	1080N	294N/μm	-20μm
H	2196N	391N/μm	-33μm

Additional information

	3.4	g/brg	Recommended Grease Quantities

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.

Mass

0.625	kg	Mass(approx.)