



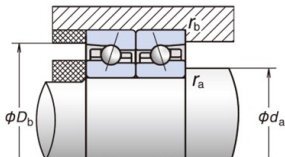
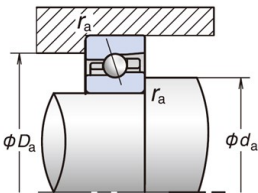
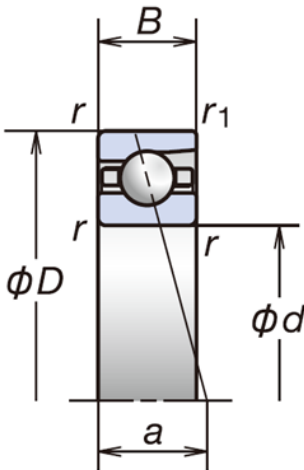
PRODUCT DATASHEET

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7918A5

Standard Series High Precision Angular Contact Ball Bearings



Boundary Dimensions

d	90	mm	Bore diameter
D	125	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	49.5	kN	Basic Dynamic Load Rating
C0r	43.5	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	34.1	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	97	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	33.5	kN	Permissible Axial Load
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	272N	203N/μm	-4μm
L	500N	253N/μm	-8μm
M	1096N	341N/μm	-16μm
H	2184N	449N/μm	-27μm

Additional information

	3.4	g/brg	Recommended Grease Quantities
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Mass

	0.560	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.