



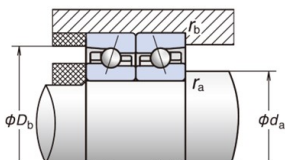
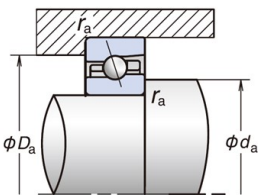
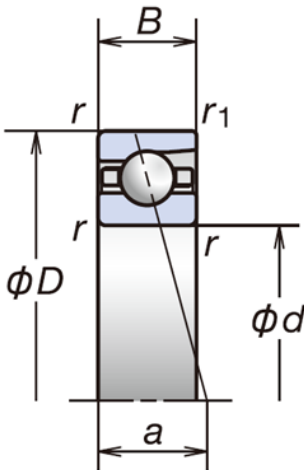
PRODUCT DATASHEET

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7918C

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	52.5	kN	Basic Dynamic Load Rating
C0r	46.0	kN	Basic Static Load Rating

Speeds

Grease	10700	min-1	Limiting Speed
Oil (Oil-air)	16300	min-1	Limiting Speed

Dimensions

	C: 15°		Contact Angle
a	23.4	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	29.1	kN	Permissible Axial Load
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Calculation factors

f0	16.6		Factor
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Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	153N	79N/μm	-3μm
L	289N	102N/μm	-9μm
M	740N	156N/μm	-23μm
H	1488N	219N/μm	-39μm

Additional information

	3.4	g/brg	Recommended Grease Quantities
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Mass

0.568	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.