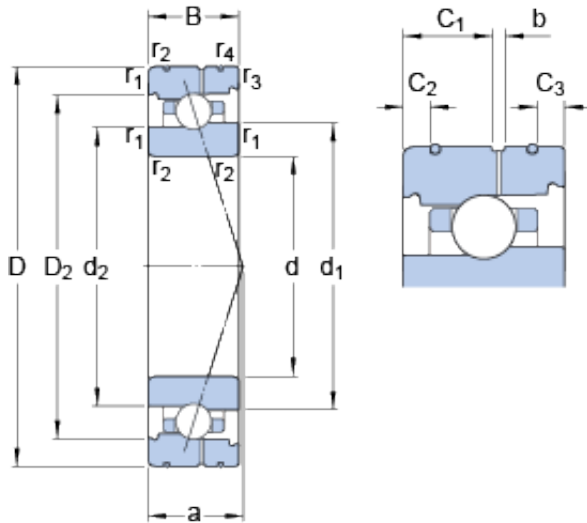




NTL BEARINGS LTD.

71914 CB/P4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 71914 CB/P4AL



71914 CB/P4AL Bearing 2D drawings and 3D CAD models

Size	100x70x16 mm
Bore Diameter	100 mm
Outer Diameter	70 mm
Width	16 mm
d	70 mm
D	100 mm
B	16 mm
d ₁	80.94 mm
d ₂	79.55 mm
D ₂	91.66 mm
b	1.5 mm
C ₁	8.6 mm
C ₂	3.8 mm
C ₃	1.7 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	22.2 mm
d _a - min.	74.6 mm
d _b - min.	74.6 mm
D _a - max.	95.4 mm
D _b - max.	98 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	81.9 mm



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Basic dynamic load rating - C	13.5 kN
Basic static load rating - C ₀	12.2 kN
Fatigue load limit - P _u	0.52 kN
Limiting speed for grease lubrication	18000 r/min
Limiting speed for oil lubrication	28000 mm/min
Ball - D _w	6.35 mm
Ball - z	32
G _{ref}	4.49 cm ³
Calculation factor - f ₀	9.9
Preload class A - G _A	45 N
Preload class B - G _B	90 N
Preload class C - G _C	270 N
Calculation factor - f	1.1
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.02
Calculation factor - f _{2C}	1.07
Calculation factor - f _{HC}	1
Preload class A	44 N/micron
Preload class B	57 N/micron
Preload class C	91 N/micron
d ₁	80.94 mm
d ₂	79.55 mm
D ₂	91.66 mm
C ₁	8.6 mm
C ₂	3.8 mm
C ₃	1.7 mm
r _{1,2} min.	1 mm



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$r_{3,4}$ min.	0.3 mm
d_a min.	74.6 mm
d_b min.	74.6 mm
D_a max.	95.4 mm
D_b max.	98 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	81.9 mm
Basic dynamic load rating C	18.2 kN
Basic static load rating C_0	20 kN
Fatigue load limit P_u	0.52 kN
Attainable speed for grease lubrication	18000 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter D_w	6.35 mm
Number of balls z	32
Reference grease quantity G_{ref}	4.49 cm ³
Preload class A G_A	45 N
Static axial stiffness, preload class A	44 N/ μ m
Preload class B G_B	90 N
Static axial stiffness, preload class B	57 N/ μ m
Preload class C G_C	270 N
Static axial stiffness, preload class C	91 N/ μ m
Calculation factor f	1.1
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.07
Calculation factor f_{HC}	1



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Calculation factor f_0	9.9
Mass bearing	0.35 kg