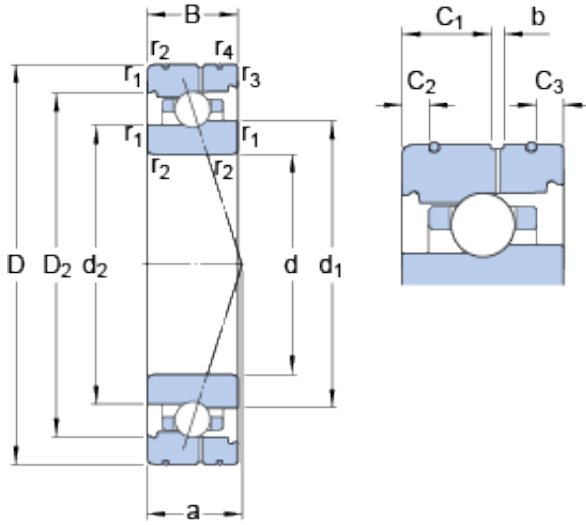




NTL BEARINGS LTD.



71914 ACB/P4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 71914 ACB/P4AL

71914 ACB/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	31.2 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	12.7 kN
Basic static load rating - C ₀	11.6 kN
Fatigue load limit - P _u	0.49 kN
Limiting speed for grease lubrication	16000 r/min
Limiting speed for oil lubrication	24000 mm/min
Ball - D _w	6.35 mm
Ball - z	32
G _{ref}	4.49 cm ³
Calculation factor - e	0.68
Calculation factor - Y ₂	0.87
Calculation factor - Y ₀	0.38
Calculation factor - X ₂	0.41
Calculation factor - Y ₁	0.92
Calculation factor - Y ₂	1.41
Calculation factor - Y ₀	0.76
Calculation factor - X ₂	0.67
Preload class A - G _A	75 N
Preload class B - G _B	150 N
Preload class C - G _C	450 N
Calculation factor - f	1.1
Calculation factor - f ₁	0.99
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	112 N/micron
Preload class B	144 N/micron



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Preload class C	218 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
$r_{3,4}$ 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	17.4 kN
Basic static load rating C_0	18.6 kN
Fatigue load limit P_u	0.49 kN
Attainable speed for grease lubrication	16000 r/min
Attainable speed for oil-air lubrication	24000 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	75 N
Static axial stiffness, preload class A	112 N/ μ m
Preload class B G_B	150 N
Static axial stiffness, preload class B	144 N/ μ m
Preload class C G_C	450 N



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Static axial stiffness, preload class C	218 N/ μ m
Calculation factor f	1.1
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.07
Calculation factor f_{HC}	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.35 kg