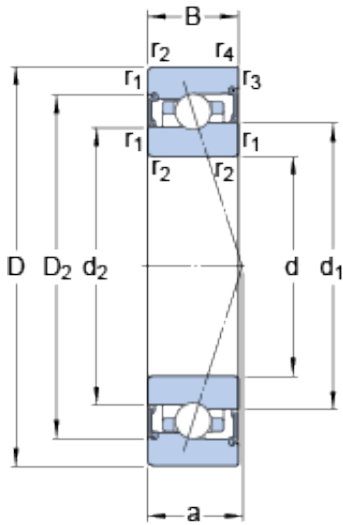




NTL BEARINGS LTD.

S7014 ACB/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7014 ACB/P4A



S7014 ACB/P4A Bearing 2D drawings and 3D CAD models

Size	110x70x20 mm
Bore Diameter	110 mm
Outer Diameter	70 mm
Width	20 mm
d	70 mm
D	110 mm
B	20 mm
d ₁	85 mm
d ₂	83.2 mm
D ₂	97.8 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	31.2 mm
d _a - min.	76 mm
d _a - max.	84.2 mm
d _b - min.	76 mm
d _b - max.	82.4 mm
D _a - max.	104 mm
D _b - max.	106.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	18.2 kN
Basic static load rating - C ₀	15.6 kN
Fatigue load limit - P _u	0.655 kN



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Limiting speed for grease lubrication	15000 r/min
Ball - D_w	7.938 mm
Ball - z	28
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	212 N
Preload class B - G_B	220 N
Preload class C - G_C	660 N
Calculation factor - f	1.07
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.04
Calculation factor - f_{HC}	1
Preload class A	123 N/micron
Preload class B	159 N/micron
Preload class C	239 N/micron
d_1	85 mm
d_2	83.2 mm
D_2	97.8 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	76 mm



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d_a max.	84.2 mm
d_b min.	76 mm
d_b max.	82.4 mm
D_a max.	104 mm
D_b max.	106.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	24.7 kN
Basic static load rating C_0	26 kN
Fatigue load limit P_u	0.655 kN
Attainable speed for grease lubrication	15000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	28
Preload class A G_A	212 N
Static axial stiffness, preload class A	123 N/ μ m
Preload class B G_B	220 N
Static axial stiffness, preload class B	159 N/ μ m
Preload class C G_C	660 N
Static axial stiffness, preload class C	239 N/ μ m
Calculation factor f	1.07
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.04
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



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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	0.66 kg