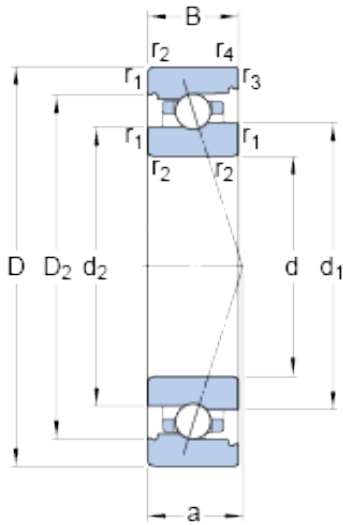




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7024 ACB/P4A Bearing 2D drawings and 3D CAD models

120 mm x 180 mm x 28 mm SKF 7024 ACB/P4A angular contact ball bearings

Bearing No. 7024 ACB/P4A

Size	180x120x28 mm
Bore Diameter	180 mm
Outer Diameter	120 mm
Width	28 mm
d	120 mm
D	180 mm
B	28 mm
d ₁	143.2 mm
d ₂	140.8 mm
D ₂	161.9 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
a	49.2 mm
d _a - min.	129 mm
d _b - min.	129 mm
D _a - max.	171 mm
D _b - max.	175.4 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	144.7 mm
Basic dynamic load rating - C	35.8 kN
Basic static load rating - C ₀	36.5 kN
Fatigue load limit - P _u	1.3 kN
Limiting speed for grease	8500 r/min



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Lubrication	
Limiting speed for oil lubrication	13000 mm/min
Ball - D_w	11.112 mm
Ball - z	33
G_{ref}	23.69 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	220 N
Preload class B - G_B	440 N
Preload class C - G_C	1320 N
Calculation factor - f	1.08
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	197 N/micron
Preload class B	252 N/micron
Preload class C	379 N/micron
d_1	143.2 mm
d_2	140.8 mm
D_2	161.9 mm
$r_{1,2}$ min.	2 mm



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$r_{3,4}$ min.	1 mm
d_a min.	129 mm
d_b min.	129 mm
D_a max.	171 mm
D_b max.	175.4 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	144.7 mm
Basic dynamic load rating C	47.5 kN
Basic static load rating C_0	58.5 kN
Fatigue load limit P_u	1.27 kN
Attainable speed for grease lubrication	8500 r/min
Attainable speed for oil-air lubrication	13000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	33
Reference grease quantity G_{ref}	23.69 cm ³
Preload class A G_A	220 N
Static axial stiffness, preload class A	197 N/ μ m
Preload class B G_B	440 N
Static axial stiffness, preload class B	252 N/ μ m
Preload class C G_C	1320 N
Static axial stiffness, preload class C	379 N/ μ m
Calculation factor f	1.08
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



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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	2.35 kg