



BEARING DRIVESHAFT, INC.



71910 ACB/P4A Bearing 2D drawings and 3D CAD models

50 mm x 72 mm x 12 mm SKF 71910 ACB/P4A
angular contact ball bearings

Bearing No. 71910 ACB/P4A

Size	72x50x12 mm
Bore Diameter	72 mm
Outer Diameter	50 mm
Width	12 mm
d	50 mm
D	72 mm
B	12 mm
d ₁	57.95 mm
d ₂	56.9 mm
D ₂	66.04 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	23.2 mm
d _a - min.	53.2 mm
d _b - min.	53.2 mm
D _a - max.	68.8 mm
D _b - max.	70 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	58.7 mm
Basic dynamic load rating - C	7.3 kN
Basic static load rating - C ₀	5.8 kN
Fatigue load limit - P _u	0.25 kN
Limiting speed for grease	22000 r/min



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Lubrication	
Limiting speed for oil lubrication	36000 mm/min
Ball - D_w	4.762 mm
Ball - z	29
G_{ref}	1.89 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	43 N
Preload class B - G_B	86 N
Preload class C - G_C	260 N
Calculation factor - f	1.09
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	79 N/micron
Preload class B	102 N/micron
Preload class C	155 N/micron
d_1	57.95 mm
d_2	56.9 mm
D_2	66.04 mm
$r_{1,2}$ min.	0.6 mm



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$r_{3,4}$ min.	0.3 mm
d_a min.	53.2 mm
d_b min.	53.2 mm
D_a max.	68.8 mm
D_b max.	70 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	58.7 mm
Basic dynamic load rating C	9.75 kN
Basic static load rating C_0	9.65 kN
Fatigue load limit P_u	0.25 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	36000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	29
Reference grease quantity G_{ref}	1.89 cm ³
Preload class A G_A	43 N
Static axial stiffness, preload class A	79 N/ μ m
Preload class B G_B	86 N
Static axial stiffness, preload class B	102 N/ μ m
Preload class C G_C	260 N
Static axial stiffness, preload class C	155 N/ μ m
Calculation factor f	1.09
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



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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	0.13 kg