



San Driveshaft Co., Ltd.



71909 ACB/P4A Bearing 2D drawings and 3D CAD models

45 mm x 68 mm x 12 mm SKF 71909 ACB/P4A High Reliability Precision Bearings

Bearing No. 71909 ACB/P4A

Size	68x45x12 mm
Bore Diameter	68 mm
Outer Diameter	45 mm
Width	12 mm
d	45 mm
D	68 mm
B	12 mm
d ₁	53.45 mm
d ₂	52.4 mm
D ₂	61.8 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	22.1 mm
d _a - min.	48.2 mm
d _b - min.	48.2 mm
D _a - max.	64.8 mm
D _b - max.	66 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	54.2 mm
Basic dynamic load rating - C	7 kN
Basic static load rating - C ₀	5.4 kN
Fatigue load limit - P _u	0.232 kN
Limiting speed for grease	24000 r/min



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Lubrication	
Limiting speed for oil lubrication	38000 mm/min
Ball - D_w	4.762 mm
Ball - z	27
G_{ref}	1.75 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	41 N
Preload class B - G_B	82 N
Preload class C - G_C	245 N
Calculation factor - f	1.08
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	74 N/micron
Preload class B	95 N/micron
Preload class C	143 N/micron
d_1	53.45 mm
d_2	52.4 mm
D_2	61.8 mm
$r_{1,2}$ min.	0.6 mm



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$r_{3,4}$ min.	0.3 mm
d_a min.	48.2 mm
d_b min.	48.2 mm
D_a max.	64.8 mm
D_b max.	66 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	54.2 mm
Basic dynamic load rating C	9.56 kN
Basic static load rating C_0	9 kN
Fatigue load limit P_u	0.232 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	38000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	27
Reference grease quantity G_{ref}	1.75 cm ³
Preload class A G_A	41 N
Static axial stiffness, preload class A	74 N/ μ m
Preload class B G_B	82 N
Static axial stiffness, preload class B	95 N/ μ m
Preload class C G_C	245 N
Static axial stiffness, preload class C	143 N/ μ m
Calculation factor f	1.08
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