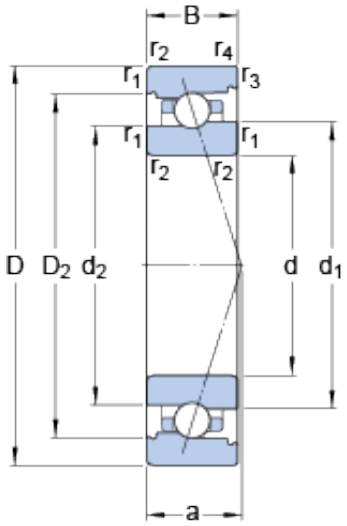

7011 CB/P4A Bearing 2D drawings and 3D CAD models

55 mm x 90 mm x 18 mm SKF 7011 CB/P4A angular contact ball bearings

Bearing No. 7011 CB/P4A

Size	90x55x18 mm
Bore Diameter	90 mm
Outer Diameter	55 mm
Width	18 mm
d	55 mm
D	90 mm
B	18 mm
d_1	68.18 mm
d_2	66.65 mm
D_2	79.39 mm
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
a	18.8 mm
d_a - min.	61 mm
d_b - min.	61 mm
D_a - max.	84 mm
D_b - max.	86.8 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
d_n	69.2 mm
Basic dynamic load rating - C	14 kN
Basic static load rating - C_0	11 kN
Fatigue load limit - P_u	0.465 kN
Limiting speed for grease	22000 r/min

lubrication	
Limiting speed for oil lubrication	32000 mm/min
Ball - D_w	6.747 mm
Ball - z	26
G_{ref}	4.69 cm3
Calculation factor - f_0	9.7
Preload class A - G_A	46 N
Preload class B - G_B	92 N
Preload class C - G_C	275 N
Calculation factor - f	1.06
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1
Preload class A	38 N/micron
Preload class B	50 N/micron
Preload class C	80 N/micron
d_1	68.18 mm
d_2	66.65 mm
D_2	79.39 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	61 mm
d_b min.	61 mm
D_a max.	84 mm
D_b max.	86.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	69.2 mm

Basic dynamic load rating C	18.6 kN
Basic static load rating C_0	19 kN
Fatigue load limit P_u	0.465 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	32000 r/min
Ball diameter D_w	6.747 mm
Number of balls z	26
Reference grease quantity G_{ref}	4.69 cm^3
Preload class A G_A	46 N
Static axial stiffness, preload class A	38 N/µm
Preload class B G_B	92 N
Static axial stiffness, preload class B	50 N/µm
Preload class C G_C	275 N
Static axial stiffness, preload class C	80 N/µm
Calculation factor f	1.06
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor f_0	9.7
Mass bearing	0.42 kg