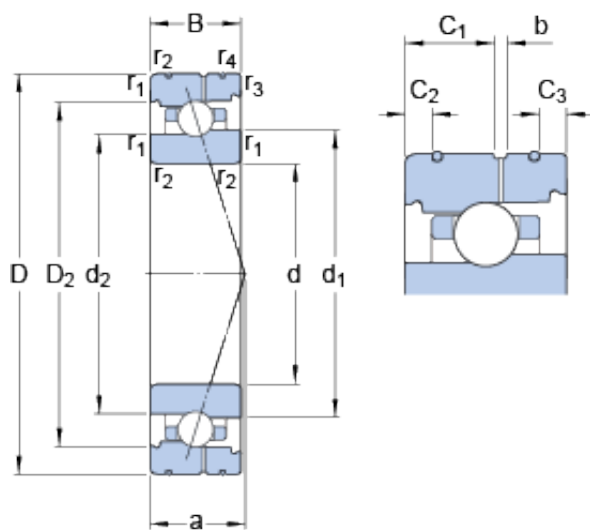




Bearing No. 7011 CB/HCP4AL

b	2.2 mm
d	55 mm
a	18.8 mm
B	18 mm
D	90 mm
Ball - z	26
Size (mm)	90x55x18
Width (mm)	18
Mass bearing	0.4 kg
d ₂	66.65 mm
D ₂	79.39 mm
d _n	69.2 mm
C ₁	9 mm
C ₂	4.3 mm
C ₃	2.8 mm
C ₂	4.3 mm
C ₁	9 mm
d _n	69.2 mm
D ₂	79.39 mm
d ₂	66.65 mm
d ₁	68.18 mm
d ₁	68.18 mm
C ₃	2.8 mm
Bearing number	7011 CB/HCP4AL
Preload class B	56 N/micron
G _{ref}	4.69 cm3
Preload class C	88 N/micron
Preload class A	43 N/micron
Number of balls z	26

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
Bore Diameter (mm)	90
Outer Diameter (mm)	55
$r_{1,2}$ min.	1.1 mm
d_a - min.	61 mm
d_b - min.	61 mm
D_a - max.	84 mm
Calculation factor f	1.06
r_b - max.	0.6 mm
$r_{3,4}$ min.	0.6 mm
r_a - max.	1 mm
D_b - max.	86.8 mm
Ball - D_w	6.747 mm
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Calculation factor - f	1.06
Ball diameter D_w	6.747 mm
Basic dynamic load rating C	18.6 kN
Preload class B G_B	92 N
Preload class C G_C	275 N
Preload class A G_A	46 N
Basic dynamic load rating - C	14 kN
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	1
Calculation factor f_0	9.7
Fatigue load limit P_u	0.465 kN
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01
Calculation factor - f_0	9.7
Limiting speed for oil lubrication	40000 mm/min
Fatigue load limit - P_u	0.465 kN
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	26000 r/min
Basic static load rating C_0	19 kN
Static axial stiffness, preload class A	43 N/ μ m
Static axial stiffness, preload class B	56 N/ μ m
Static axial stiffness, preload class C	88 N/ μ m
Attainable speed for grease lubrication	26000 r/min
Basic static load rating - C_0	11 kN
Attainable speed for oil-air lubrication	40000 r/min
Reference grease quantity G_{ref}	4.69 cm ³

