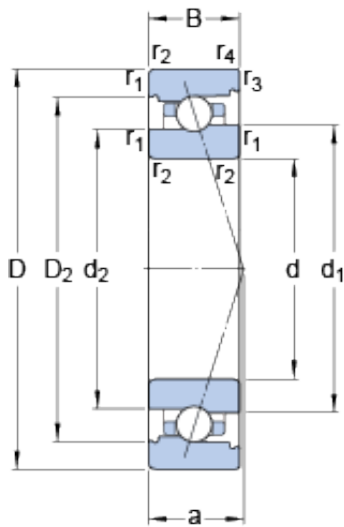




Bearing No. 7011 CB/HCP4A

D	90 mm
d	55 mm
B	18 mm
a	18.8 mm
Ball - z	26
Size (mm)	90x55x18
Width (mm)	18
Mass bearing	0.4 kg
d_n	69.2 mm
d_n	69.2 mm
D_2	79.39 mm
d_1	68.18 mm
d_2	66.65 mm
D_2	79.39 mm
d_2	66.65 mm
d_1	68.18 mm
Bearing number	7011 CB/HCP4A
Preload class A	43 N/micron
Preload class B	56 N/micron
Preload class C	88 N/micron
G_{ref}	4.69 cm ³
Number of balls z	26
D_a max.	84 mm
d_a min.	61 mm
d_b min.	61 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
d_a - min.	61 mm
r_a - max.	1 mm
$r_{1,2}$ min.	1.1 mm
Calculation factor f	1.06
D_b - max.	86.8 mm
$r_{3,4}$ min.	0.6 mm
r_b - max.	0.6 mm
D_a - max.	84 mm
Ball - D_w	6.747 mm
d_b - min.	61 mm
Calculation factor - f	1.06
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Basic dynamic load rating C	18.6 kN
Ball diameter D_w	6.747 mm
Preload class B G_B	92 N
Preload class A G_A	46 N
Basic dynamic load rating - C	14 kN
Preload class C G_C	275 N
Preload class A - G_A	46 N
Preload class C - G_C	275 N
Preload class B - G_B	92 N
Calculation factor f_1	1
Fatigue load limit P_u	0.465 kN
Calculation factor f_0	9.7
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01

Calculation factor - f	1
Fatigue load limit - P_u	0.465 kN
Calculation factor - f_0	9.7
Limiting speed for oil lubrication	40000 mm/min
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1.01
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
Attainable speed for oil-air lubrication	40000 r/min
Basic static load rating - C_0	11 kN
Reference grease quantity G_{ref}	4.69 cm ³