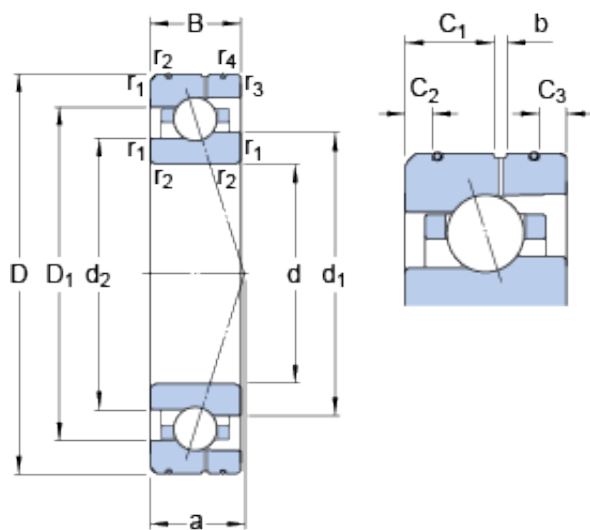




Bearing No. 7011 ACE/HCP4AL

b	2.4 mm
d	55 mm
a	26.1 mm
B	18 mm
D	90 mm
Ball - z	24
Size (mm)	90x55x18
Width (mm)	18
Mass bearing	0.36 kg
d ₂	65.6 mm
D ₁	77.25 mm
d _n	69.6 mm
C ₁	9 mm
C ₂	3.4 mm
C ₃	3.4 mm
C ₂	3.4 mm
C ₁	9 mm
d _n	69.6 mm
D ₁	77.25 mm
d ₂	65.6 mm
d ₁	67.73 mm
d ₁	67.73 mm
C ₃	3.4 mm
Bearing number	7011 ACE/HCP4AL
Preload class A	128 N/micron
Preload class B	193 N/micron
G _{ref}	5 cm3
Preload class C	251 N/micron
Number of balls z	24

Bore Diameter (mm)	90
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	85.8 mm
D_a max.	84 mm
d_a min.	61 mm
d_b min.	61 mm
Outer Diameter (mm)	55
r_b - max.	0.6 mm
$r_{3,4}$ min.	0.6 mm
d_b - min.	61 mm
D_a - max.	84 mm
D_b - max.	85.8 mm
$r_{1,2}$ min.	1.1 mm
d_a - min.	61 mm
r_a - max.	1 mm
Ball - D_w	7.938 mm
Calculation factor f	1.07
Calculation factor e	0.68
$r_{3,4}$ - min.	0.6 mm
Calculation factor - f	1.07
$r_{1,2}$ - min.	1.1 mm
Calculation factor - e	0.68
Ball diameter D_w	7.938 mm
Basic dynamic load rating C	15.9 kN
Preload class C G_C	860 N
Basic dynamic load rating - C	15.9 kN
Preload class B G_B	430 N
Preload class A G_A	140 N
Preload class C - G_C	860 N

Preload class A - G_A	140 N
Preload class B - G_B	430 N
Calculation factor f_1	0.99
Fatigue load limit P_u	0.49 kN
Calculation factor f_{HC}	1.01
Calculation factor f_{2C}	1.06
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Limiting speed for oil lubrication	35000 mm/min
Calculation factor - Y_1	0.92
Fatigue load limit - P_u	0.49 kN
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2C}	1.06
Calculation factor - f_{2B}	1.03
Limiting speed for grease lubrication	23000 r/min
Basic static load rating C_0	11.6 kN
Static axial stiffness, preload class A	128 N/ μ m
Static axial stiffness, preload class C	251 N/ μ m
Static axial stiffness, preload class B	193 N/ μ m
Attainable speed for grease lubrication	23000 r/min

Basic static load rating - C_0	11.6 kN
Attainable speed for oil-air lubrication	35000 r/min
Reference grease quantity G_{ref}	5 cm ³
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