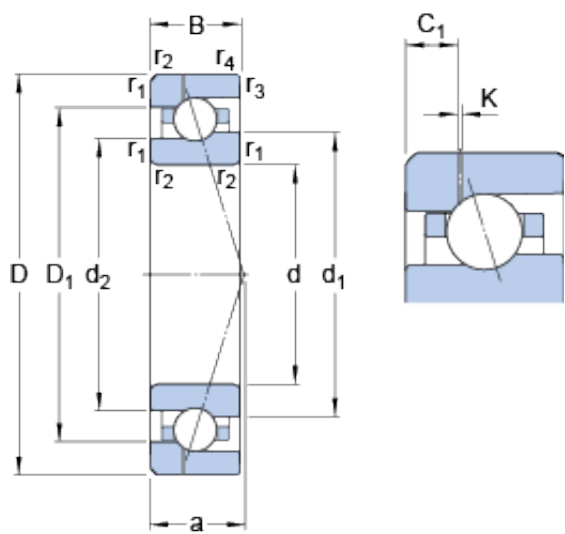




Bearing No. 7011 CE/HCP4AH1

K	0.5 mm
a	18.8 mm
d	55 mm
D	90 mm
B	18 mm
Ball - z	24
Size (mm)	90x55x18
Width (mm)	18
Mass bearing	0.36 kg
d_n	69.6 mm
D_1	77.25 mm
d_1	67.73 mm
C_1	6.3 mm
D_1	77.25 mm
d_2	65.6 mm
C_1	6.3 mm
d_1	67.73 mm
d_n	69.6 mm
d_2	65.6 mm
Bearing number	7011 CE/HCP4AH1
Preload class B	80 N/micron
Preload class C	108 N/micron
G_{ref}	5 cm3
Preload class A	51 N/micron
Number of balls z	24
D_a max.	84 mm
d_a min.	61 mm
d_b min.	61 mm
D_b max.	85.8 mm

r_a max.	1 mm
r_b max.	0.6 mm
Bore Diameter (mm)	90
Outer Diameter (mm)	55
r_b - max.	0.6 mm
$r_{1,2}$ min.	1.1 mm
d_a - min.	61 mm
Calculation factor f	1.07
r_a - max.	1 mm
$r_{3,4}$ min.	0.6 mm
d_b - min.	61 mm
Ball - D_w	7.938 mm
D_a - max.	84 mm
D_b - max.	85.8 mm
Calculation factor - f	1.07
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Basic dynamic load rating C	16.8 kN
Ball diameter D_w	7.938 mm
Preload class C G_C	540 N
Preload class B G_B	270 N
Preload class A G_A	90 N
Basic dynamic load rating - C	16.8 kN
Preload class C - G_C	540 N
Preload class A - G_A	90 N
Preload class B - G_B	270 N
Calculation factor f_1	1
Calculation factor f_0	8.4
Fatigue load limit P_u	0.52 kN
Calculation factor - f	1

Calculation factor f_{HC}	1.01
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Fatigue load limit - P_u	0.52 kN
Limiting speed for oil lubrication	39000 mm/min
Calculation factor - f_0	8.4
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.03
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	25000 r/min
Basic static load rating C_0	12.2 kN
Static axial stiffness, preload class C	108 N/ μ m
Static axial stiffness, preload class A	51 N/ μ m
Attainable speed for grease lubrication	25000 r/min
Static axial stiffness, preload class B	80 N/ μ m
Basic static load rating - C_0	12.2 kN
Attainable speed for oil-air lubrication	39000 r/min
Reference grease quantity G_{ref}	5 cm ³