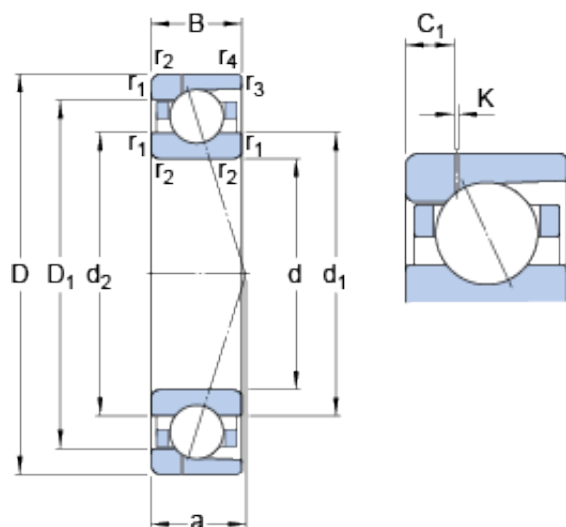




Bearing No. 7011 ACD/HCP4AH1

K	0.5 mm
a	26 mm
d	55 mm
D	90 mm
B	18 mm
Ball - z	18
Size (mm)	90x55x18
Width (mm)	18
Mass bearing	0.32 kg
d_n	68.1 mm
D_1	79.2 mm
d_1	65.8 mm
C_1	4.88 mm
D_1	79.2 mm
d_2	65.8 mm
C_1	4.88 mm
d_1	65.8 mm
d_n	68.1 mm
d_2	65.8 mm
Bearing number	7011 ACD/HCP4AH1
Preload class B	230 N/micron
Preload class A	176 N/micron
Preload class D	413 N/micron
G_{ref}	5.1 cm ³
Preload class C	305 N/micron
Number of balls z	18
Bore Diameter (mm)	90
r_b max.	0.6 mm
r_a max.	1 mm

D_b max.	86.8 mm
D_a max.	84 mm
d_a min.	61 mm
d_b min.	61 mm
Outer Diameter (mm)	55
r_a - max.	1 mm
D_a - max.	84 mm
d_b - min.	61 mm
d_a - min.	61 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
Ball - D_w	11.112 mm
r_b - max.	0.6 mm
D_b - max.	86.8 mm
Calculation factor f	1.1
Calculation factor e	0.68
Calculation factor - f	1.1
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - e	0.68
Ball diameter D_w	11.112 mm
Basic dynamic load rating C	37.1 kN
Preload class A G_A	230 N
Preload class B G_B	460 N
Preload class C G_C	920 N
Basic dynamic load rating - C	37.1 kN
Preload class D G_D	1840 N
Preload class B - G_B	460 N
Preload class A - G_A	230 N
Preload class D - G_D	1840 N

Preload class C - G_C	920 N
Fatigue load limit P_u	1.32 kN
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1.02
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Limiting speed for oil lubrication	26000 mm/min
Fatigue load limit - P_u	1.3 kN
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	17000 r/min
Basic static load rating C_0	31 kN
Static axial stiffness, preload class A	176 N/ μ m
Static axial stiffness, preload class D	413 N/ μ m
Static axial stiffness, preload class C	305 N/ μ m
Static axial stiffness,	230 N/ μ m

preload class B	
Attainable speed for grease lubrication	17000 r/min
Basic static load rating - C_0	31 kN
Attainable speed for oil-air lubrication	26000 r/min
Reference grease quantity G_{ref}	5.1 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