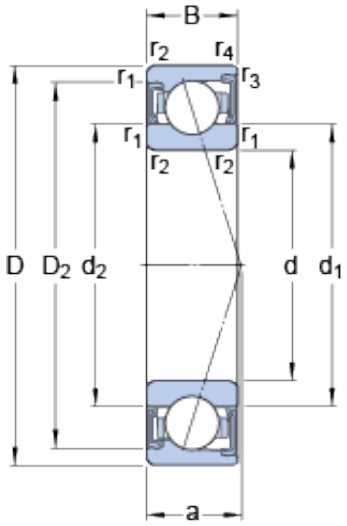

S7011 CD/HCP4A Bearing 2D drawings and 3D CAD models

55 mm x 90 mm x 18 mm 55 mm x 90 mm x 18 mm SKF S7011 CD/HCP4A angular contact ball bearings

Bearing No. S7011 CD/HCP4A

Size	90x55x18 mm
Bore Diameter	90 mm
Outer Diameter	55 mm
Width	18 mm
d	55 mm
D	90 mm
B	18 mm
d_1	65.8 mm
d_2	65.8 mm
D_2	81.8 mm
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
a	18.8 mm
d_a - min.	61 mm
d_a - max.	65.2 mm
d_b - min.	61 mm
d_b - max.	65.2 mm
D_a - max.	84 mm
D_b - max.	86.8 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
Basic dynamic load rating - C	39.7 kN
Basic static load rating - C_0	32.5 kN

Fatigue load limit - P_u	1.4 kN
Limiting speed for grease lubrication	18000 r/min
Ball - D_w	11.112 mm
Ball - z	18
Calculation factor - f_0	15.1
Preload class A - G_A	150 N
Preload class B - G_B	300 N
Preload class C - G_C	600 N
Preload class D - G_D	1200 N
Calculation factor - f	1.1
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1.02
Preload class A	75 N/micron
Preload class B	102 N/micron
Preload class C	143 N/micron
Preload class D	207 N/micron
d_1	65.8 mm
d_2	65.8 mm
D_2	81.8 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	61 mm
d_a max.	65.2 mm
d_b min.	61 mm
d_b max.	65.2 mm

D_a max.	84 mm
D_b max.	86.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	39.7 kN
Basic static load rating C_0	32.5 kN
Fatigue load limit P_u	1.37 kN
Attainable speed for grease lubrication	18000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	18
Preload class A G_A	150 N
Static axial stiffness, preload class A	75 N/ µ m
Preload class B G_B	300 N
Static axial stiffness, preload class B	102 N/ µ m
Preload class C G_C	600 N
Static axial stiffness, preload class C	143 N/ µ m
Preload class D G_D	1200 N
Static axial stiffness, preload class D	207 N/ µ m
Calculation factor f	1.1
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor f_0	15.1
Mass bearing	0.32 kg