



70 mm x 110 mm x 20 mm SKF 7014
CE/HCP4AL angular contact ball bearings

Bearing No. 7014 CE/HCP4AL

7014 CE/HCP4AL Bearing 2D drawings and 3D CAD models

Size	110x70x20 mm
Bore Diameter	110 mm
Outer Diameter	70 mm
Width	20 mm
d	70 mm
D	110 mm
B	20 mm
d ₁	84.3 mm
d ₂	81.6 mm
D ₁	95.32 mm
b	1.9 mm
C ₁	10.9 mm
C ₂	3.4 mm
C ₃	3.4 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	22.2 mm
d _a - min.	76 mm
d _b - min.	76 mm
D _a - max.	104 mm
D _b - max.	105.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	86.5 mm



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Basic dynamic load rating - C	23.8 kN
Basic static load rating - C ₀	18.3 kN
Fatigue load limit - P _u	0.78 kN
Limiting speed for grease lubrication	20500 r/min
Limiting speed for oil lubrication	32000 mm/min
Ball - D _w	9.525 mm
Ball - z	25
G _{ref}	8.2 cm ³
Calculation factor - f ₀	8.4
Preload class A - G _A	130 N
Preload class B - G _B	380 N
Preload class C - G _C	760 N
Calculation factor - f	1.09
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.03
Calculation factor - f _{2C}	1.05
Calculation factor - f _{HC}	1.01
Preload class A	64 N/micron
Preload class B	98 N/micron
Preload class C	133 N/micron
d ₁	84.3 mm
d ₂	81.6 mm
D ₁	95.32 mm
C ₁	10.9 mm
C ₂	3.4 mm
C ₃	3.4 mm
r _{1,2} min.	1.1 mm



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$r_{3,4}$ min.	0.6 mm
d_a min.	76 mm
d_b min.	76 mm
D_a max.	104 mm
D_b max.	105.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	86.5 mm
Basic dynamic load rating C	23.8 kN
Basic static load rating C_0	18.3 kN
Fatigue load limit P_u	0.78 kN
Attainable speed for grease lubrication	20500 r/min
Attainable speed for oil-air lubrication	32000 r/min
Ball diameter D_w	9.525 mm
Number of balls z	25
Reference grease quantity G_{ref}	8.2 cm ³
Preload class A G_A	130 N
Static axial stiffness, preload class A	64 N/ μ m
Preload class B G_B	380 N
Static axial stiffness, preload class B	98 N/ μ m
Preload class C G_C	760 N
Static axial stiffness, preload class C	133 N/ μ m
Calculation factor f	1.09
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01



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Calculation factor f_0	8.4
Mass bearing	0.56 kg