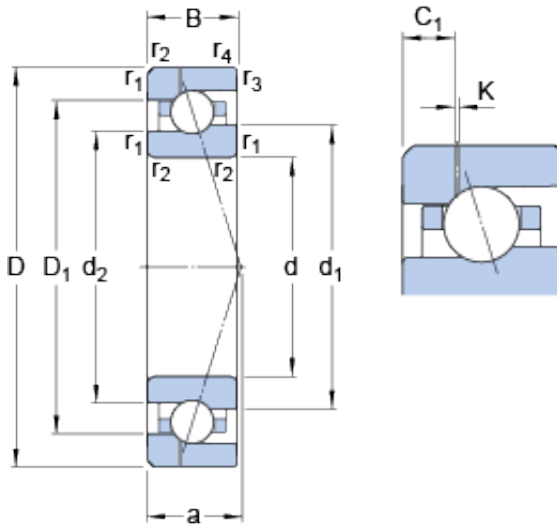




NTL BEARINGS LTD.



7014 CE/HCP4AH1 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7014 CE/HCP4AH1

7014 CE/HCP4AH1 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
K	0.5 mm
C ₁	6.7 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
Basic dynamic load rating - C	23.8 kN
Basic static load rating - C ₀	18.3 kN



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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	6.7 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ 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



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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
Calculation factor f_0	8.4
Mass bearing	0.56 kg