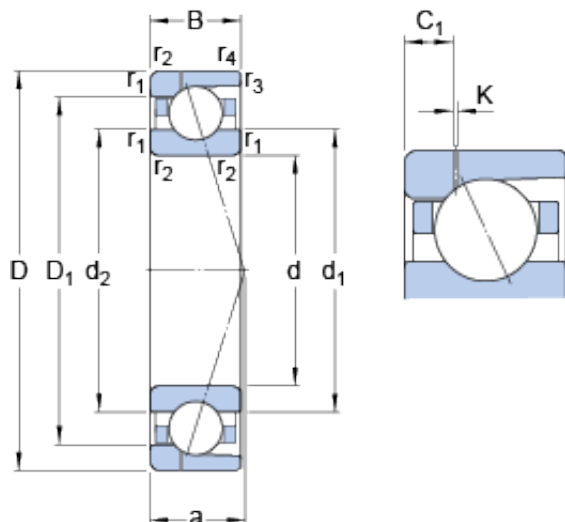




AMERICAN NTN BEARING LTD

80 mm x 125 mm x 22 mm SKF 7016 CD/HCP4AH1 angular contact ball bearings

Bearing No. 7016 CD/HCP4AH1



7016 CD/HCP4AH1 Bearing 2D drawings and 3D CAD models

Size	125x80x22 mm
Bore Diameter	125 mm
Outer Diameter	80 mm
Width	22 mm
d	80 mm
D	125 mm
B	22 mm
d ₁	93.9 mm
d ₂	93.9 mm
D ₁	111.1 mm
K	0.5 mm
C ₁	5.89 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	24.8 mm
d _a - min.	86 mm
d _b - min.	86 mm
D _a - max.	119 mm
D _b - max.	121 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	96.9 mm
Basic dynamic load rating - C	65 kN
Basic static load rating - C ₀	61 kN



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Fatigue load limit - P_u	2.6 kN
Limiting speed for grease lubrication	13000 r/min
Limiting speed for oil lubrication	20000 mm/min
Ball - D_w	14.288 mm
Ball - z	20
G_{ref}	11.1 cm ³
Calculation factor - f_0	15.5
Preload class A - G_A	240 N
Preload class B - G_B	480 N
Preload class C - G_C	960 N
Preload class D - G_D	1920 N
Calculation factor - f	1.13
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	102 N/micron
Preload class B	139 N/micron
Preload class C	194 N/micron
Preload class D	282 N/micron
d_1	93.9 mm
d_2	93.9 mm
D_1	111.1 mm
C_1	5.89 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	86 mm



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d_b min.	86 mm
D_a max.	119 mm
D_b max.	121 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	96.9 mm
Basic dynamic load rating C	65 kN
Basic static load rating C_0	61 kN
Fatigue load limit P_u	2.55 kN
Attainable speed for grease lubrication	13000 r/min
Attainable speed for oil-air lubrication	20000 r/min
Ball diameter D_w	14.288 mm
Number of balls z	20
Reference grease quantity G_{ref}	11.1 cm ³
Preload class A G_A	240 N
Static axial stiffness, preload class A	102 N/ μ m
Preload class B G_B	480 N
Static axial stiffness, preload class B	139 N/ μ m
Preload class C G_C	960 N
Static axial stiffness, preload class C	194 N/ μ m
Preload class D G_D	1920 N
Static axial stiffness, preload class D	282 N/ μ m
Calculation factor f	1.13
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05



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Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor f_0	15.5
Mass bearing	0.71 kg