



NTN BEARING CORP.OF CANADA LTD.



S7007 CD/HCP4A Bearing 2D drawings and 3D CAD models

35 mm x 62 mm x 14 mm SKF S7007 CD/HCP4A angular contact ball bearings

Bearing No. S7007 CD/HCP4A

Size	62x35x14 mm
Bore Diameter	62 mm
Outer Diameter	35 mm
Width	14 mm
d	35 mm
D	62 mm
B	14 mm
d ₁	43.7 mm
d ₂	43.7 mm
D ₂	55.57 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	13.6 mm
d _a - min.	39.6 mm
d _a - max.	43.2 mm
d _b - min.	39.6 mm
d _b - max.	43.2 mm
D _a - max.	57.4 mm
D _b - max.	60 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	15.6 kN
Basic static load rating - C ₀	9.5 kN
Fatigue load limit - P _u	0.4 kN



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Limiting speed for grease lubrication	28000 r/min
Ball - D_w	7.938 mm
Ball - z	16
Calculation factor - f_0	9.7
Preload class A - G_A	60 N
Preload class B - G_B	120 N
Preload class C - G_C	240 N
Preload class D - G_D	480 N
Calculation factor - f	1.06
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	39 N/micron
Preload class B	52 N/micron
Preload class C	71 N/micron
Preload class D	100 N/micron
d_1	43.7 mm
d_2	43.7 mm
D_2	55.57 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	39.6 mm
d_a max.	43.2 mm
d_b min.	39.6 mm
d_b max.	43.2 mm
D_a max.	57.4 mm
D_b max.	60 mm



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r_a max.	1 mm
r_b max.	0.3 mm
Basic dynamic load rating C	15.6 kN
Basic static load rating C_0	9.5 kN
Fatigue load limit P_u	0.4 kN
Attainable speed for grease lubrication	28000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	16
Preload class A G_A	60 N
Static axial stiffness, preload class A	39 N/ μ m
Preload class B G_B	120 N
Static axial stiffness, preload class B	52 N/ μ m
Preload class C G_C	240 N
Static axial stiffness, preload class C	71 N/ μ m
Preload class D G_D	480 N
Static axial stiffness, preload class D	100 N/ μ m
Calculation factor f	1.06
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	9.7
Mass bearing	0.13 kg