



NTN BEARING CORP.OF CANADA LTD.



85 mm x 120 mm x 18 mm SKF 71917 CD/HCP4AH1 angular contact ball bearings

Bearing No. 71917 CD/HCP4AH1

71917 CD/HCP4AH1 Bearing 2D drawings and 3D CAD models

Size	120x85x18 mm
Bore Diameter	120 mm
Outer Diameter	85 mm
Width	18 mm
d	85 mm
D	120 mm
B	18 mm
d ₁	95.8 mm
d ₂	95.8 mm
D ₁	109.2 mm
K	0.5 mm
C ₁	5.2 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	22.8 mm
d _a - min.	91 mm
d _b - min.	91 mm
D _a - max.	114 mm
D _b - max.	116 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	98.6 mm
Basic dynamic load rating - C	46.2 kN
Basic static load rating - C ₀	48 kN



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Fatigue load limit - P_u	2 kN
Limiting speed for grease lubrication	14000 r/min
Limiting speed for oil lubrication	20000 mm/min
Ball - D_w	11.112 mm
Ball - z	25
G_{ref}	7.2 cm ³
Calculation factor - f_0	16.2
Preload class A - G_A	170 N
Preload class B - G_B	340 N
Preload class C - G_C	680 N
Preload class D - G_D	1360 N
Calculation factor - f	1.2
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.18
Calculation factor - f_{HC}	1.04
Preload class A	99 N/micron
Preload class B	135 N/micron
Preload class C	191 N/micron
Preload class D	279 N/micron
d_1	95.8 mm
d_2	95.8 mm
D_1	109.2 mm
C_1	5.2 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	91 mm



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d_b min.	91 mm
D_a max.	114 mm
D_b max.	116 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	98.6 mm
Basic dynamic load rating C	46.2 kN
Basic static load rating C_0	48 kN
Fatigue load limit P_u	2.04 kN
Attainable speed for grease lubrication	14000 r/min
Attainable speed for oil-air lubrication	20000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	25
Reference grease quantity G_{ref}	7.2 cm ³
Preload class A G_A	170 N
Static axial stiffness, preload class A	99 N/ μ m
Preload class B G_B	340 N
Static axial stiffness, preload class B	135 N/ μ m
Preload class C G_C	680 N
Static axial stiffness, preload class C	191 N/ μ m
Preload class D G_D	1360 N
Static axial stiffness, preload class D	279 N/ μ m
Calculation factor f	1.2
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12



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Calculation factor f_{2D}	1.18
Calculation factor f_{HC}	1.04
Calculation factor f_0	16.2
Mass bearing	0.45 kg