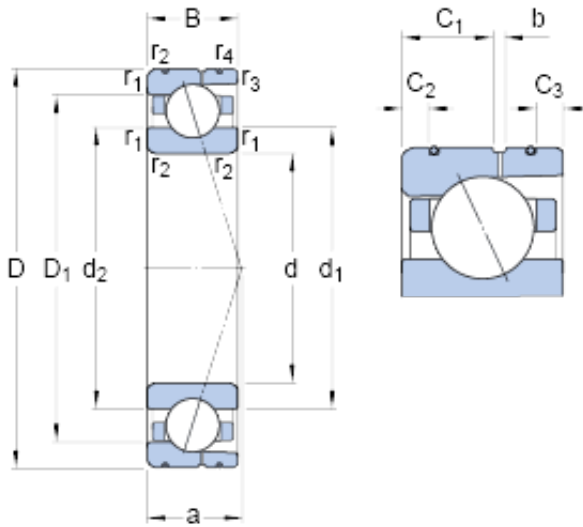




NTN Bearing Rolamentos do Brasil Ltda.



55 mm x 80 mm x 13 mm skf 71911 CD/P4AL Super-precision Angular contact ball bearings

Bearing No. 71911 CD/P4AL

71911 CD/P4AL Bearing 2D drawings and 3D CAD models

Size	80x55x13 mm
Bore Diameter	80 mm
Outer Diameter	55 mm
Width	13 mm
d	55 mm
D	80 mm
B	13 mm
d ₁	62.7 mm
d ₂	62.7 mm
D ₁	72.3 mm
b	2.2 mm
C ₁	6.5 mm
C ₂	3.2 mm
C ₃	2 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	15.6 mm
d _a - min.	59.6 mm
d _b - min.	59.6 mm
D _a - max.	75.4 mm
D _b - max.	78 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	64.7 mm



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Basic dynamic load rating - C	19.5 kN
Basic static load rating - C ₀	14.6 kN
Fatigue load limit - P _u	0.62 kN
Limiting speed for grease lubrication	16000 r/min
Limiting speed for oil lubrication	26000 mm/min
Ball - D _w	7.938 mm
Ball - z	23
G _{ref}	2.49 cm ³
Calculation factor - f ₀	10.4
Preload class A - G _A	70 N
Preload class B - G _B	140 N
Preload class C - G _C	280 N
Preload class D - G _D	560 N
Calculation factor - f	1.15
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.04
Calculation factor - f _{2C}	1.09
Calculation factor - f _{2D}	1.15
Calculation factor - f _{HC}	1
Preload class A	49 N/micron
Preload class B	65 N/micron
Preload class C	89 N/micron
Preload class D	126 N/micron
d ₁	62.7 mm
d ₂	62.7 mm
D ₁	72.3 mm
C ₁	6.5 mm



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C_2	3.2 mm
C_3	2 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	59.6 mm
d_b min.	59.6 mm
D_a max.	75.4 mm
D_b max.	78 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	64.7 mm
Basic dynamic load rating C	19.5 kN
Basic static load rating C_0	14.6 kN
Fatigue load limit P_u	0.62 kN
Attainable speed for grease lubrication	16000 r/min
Attainable speed for oil-air lubrication	26000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	23
Reference grease quantity G_{ref}	2.49 cm ³
Preload class A G_A	70 N
Static axial stiffness, preload class A	49 N/ μ m
Preload class B G_B	140 N
Static axial stiffness, preload class B	65 N/ μ m
Preload class C G_C	280 N
Static axial stiffness, preload class C	89 N/ μ m
Preload class D G_D	560 N
Static axial stiffness, preload class D	126 N/ μ m



NTN Bearing Rolamentos do Brasil Ltda.

Calculation factor f	1.15
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.09
Calculation factor f_{2D}	1.15
Calculation factor f_{HC}	1
Calculation factor f_0	10.4
Mass bearing	0.18 kg