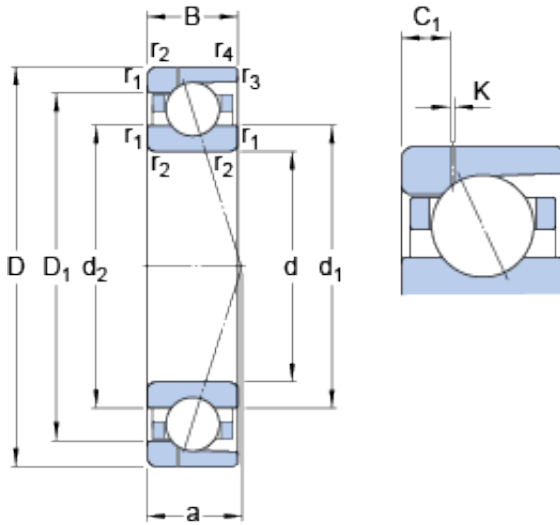




NTN BEARING-SUDAMERICANA, S.A.



180 mm x 280 mm x 46 mm SKF 7036
CD/HCP4AH1 angular contact ball bearings

Bearing No. 7036 CD/HCP4AH1

7036 CD/HCP4AH1 Bearing 2D drawings and 3D CAD models

Size	280x180x46 mm
Bore Diameter	280 mm
Outer Diameter	180 mm
Width	46 mm
d	180 mm
D	280 mm
B	46 mm
d ₁	211.8 mm
d ₂	211.8 mm
D ₁	248.2 mm
K	0.6 mm
C ₁	13.4 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
a	54 mm
d _a - min.	191 mm
d _b - min.	191 mm
D _a - max.	269 mm
D _b - max.	274 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	219.7 mm
Basic dynamic load rating - C	242 kN
Basic static load rating - C ₀	290 kN



NTN BEARING-SUDAMERICANA, S.A.

Fatigue load limit - P_u	8.2 kN
Limiting speed for grease lubrication	6000 r/min
Limiting speed for oil lubrication	9000 mm/min
Ball - D_w	30.162 mm
Ball - z	21
G_{ref}	111 cm ³
Calculation factor - f_0	15.7
Preload class A - G_A	900 N
Preload class B - G_B	1800 N
Preload class C - G_C	3600 N
Preload class D - G_D	7200 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	206 N/micron
Preload class B	279 N/micron
Preload class C	388 N/micron
Preload class D	556 N/micron
d_1	211.8 mm
d_2	211.8 mm
D_1	248.2 mm
C_1	13.4 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a min.	191 mm



NTN BEARING-SUDAMERICANA, S.A.

d_b min.	191 mm
D_a max.	269 mm
D_b max.	274 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	219.7 mm
Basic dynamic load rating C	242 kN
Basic static load rating C_0	290 kN
Fatigue load limit P_u	8.15 kN
Attainable speed for grease lubrication	6000 r/min
Attainable speed for oil-air lubrication	9000 r/min
Ball diameter D_w	30.162 mm
Number of balls z	21
Reference grease quantity G_{ref}	111 cm ³
Preload class A G_A	900 N
Static axial stiffness, preload class A	206 N/ μ m
Preload class B G_B	1800 N
Static axial stiffness, preload class B	279 N/ μ m
Preload class C G_C	3600 N
Static axial stiffness, preload class C	388 N/ μ m
Preload class D G_D	7200 N
Static axial stiffness, preload class D	556 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



NTN BEARING-SUDAMERICANA, S.A.

Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor f_0	15.7
Mass bearing	7.69 kg