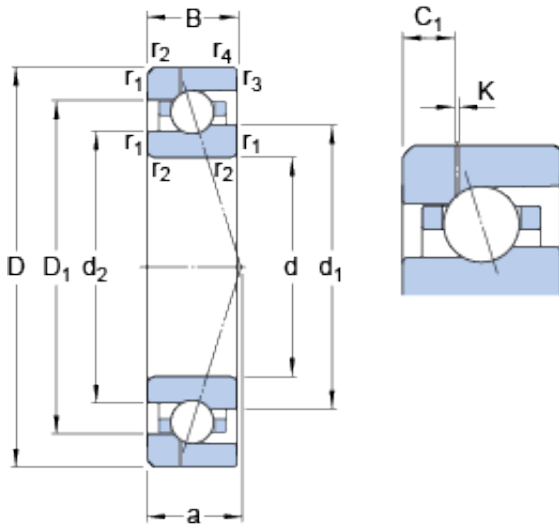




NTN BEARING-SUDAMERICANA, S.A.



60 mm x 95 mm x 18 mm SKF 7012
CE/HCP4AH1 angular contact ball bearings

Bearing No. 7012 CE/HCP4AH1

7012 CE/HCP4AH1 Bearing 2D drawings and 3D CAD models

Size	95x60x18 mm
Bore Diameter	95 mm
Outer Diameter	60 mm
Width	18 mm
d	60 mm
D	95 mm
B	18 mm
d ₁	72.74 mm
d ₂	70.6 mm
D ₁	82.22 mm
K	0.5 mm
C ₁	6.3 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	19.5 mm
d _a - min.	66 mm
d _b - min.	66 mm
D _a - max.	89 mm
D _b - max.	90.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	74.6 mm
Basic dynamic load rating - C	17.2 kN
Basic static load rating - C ₀	12.9 kN



NTN BEARING-SUDAMERICANA, S.A.

Fatigue load limit - P_u	0.54 kN
Limiting speed for grease lubrication	24000 r/min
Limiting speed for oil lubrication	37000 mm/min
Ball - D_w	7.938 mm
Ball - z	25
G_{ref}	5.3 cm ³
Calculation factor - f_0	8.5
Preload class A - G_A	92 N
Preload class B - G_B	275 N
Preload class C - G_C	550 N
Calculation factor - f	1.08
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1.01
Preload class A	53 N/micron
Preload class B	83 N/micron
Preload class C	112 N/micron
d_1	72.74 mm
d_2	70.6 mm
D_1	82.22 mm
C_1	6.3 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	66 mm
d_b min.	66 mm
D_a max.	89 mm
D_b max.	90.8 mm



NTN BEARING-SUDAMERICANA, S.A.

r_a max.	1 mm
r_b max.	0.6 mm
d_n	74.6 mm
Basic dynamic load rating C	17.2 kN
Basic static load rating C_0	12.9 kN
Fatigue load limit P_u	0.54 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	37000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	25
Reference grease quantity G_{ref}	5.3 cm ³
Preload class A G_A	92 N
Static axial stiffness, preload class A	53 N/ μ m
Preload class B G_B	275 N
Static axial stiffness, preload class B	83 N/ μ m
Preload class C G_C	550 N
Static axial stiffness, preload class C	112 N/ μ m
Calculation factor f	1.08
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01
Calculation factor f_0	8.5
Mass bearing	0.39 kg