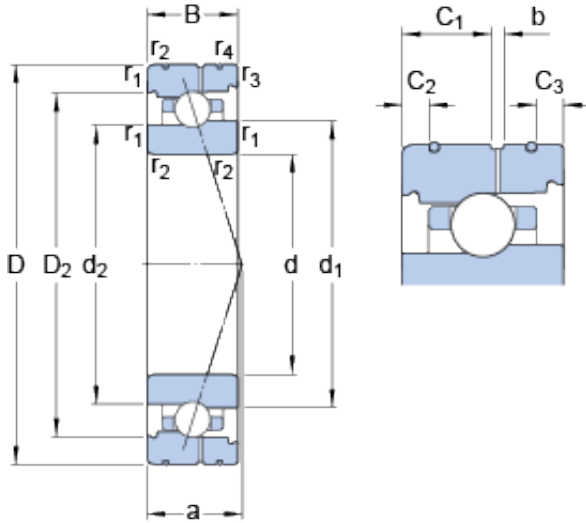




NTL BEARINGS LTD.



7012 CB/P4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 7012 CB/P4AL

7012 CB/P4AL 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	73.18 mm
d ₂	71.65 mm
D ₂	84.39 mm
b	2.2 mm
C ₁	9 mm
C ₂	4.3 mm
C ₃	2.8 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.	91.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	74.2 mm



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Basic dynamic load rating - C	14.6 kN
Basic static load rating - C ₀	12 kN
Fatigue load limit - P _u	0.51 kN
Limiting speed for grease lubrication	19000 r/min
Limiting speed for oil lubrication	30000 mm/min
Ball - D _w	6.747 mm
Ball - z	28
G _{ref}	5.03 cm ³
Calculation factor - f ₀	9.7
Preload class A - G _A	48 N
Preload class B - G _B	96 N
Preload class C - G _C	290 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 _{HC}	1
Preload class A	41 N/micron
Preload class B	54 N/micron
Preload class C	86 N/micron
d ₁	73.18 mm
d ₂	71.65 mm
D ₂	84.39 mm
C ₁	9 mm
C ₂	4.3 mm
C ₃	2.8 mm
r _{1,2} min.	1.1 mm



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$r_{3,4}$ min.	0.6 mm
d_a min.	66 mm
d_b min.	66 mm
D_a max.	89 mm
D_b max.	91.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	74.2 mm
Basic dynamic load rating C	19.5 kN
Basic static load rating C_0	20 kN
Fatigue load limit P_u	0.51 kN
Attainable speed for grease lubrication	19000 r/min
Attainable speed for oil-air lubrication	30000 r/min
Ball diameter D_w	6.747 mm
Number of balls z	28
Reference grease quantity G_{ref}	5.03 cm ³
Preload class A G_A	48 N
Static axial stiffness, preload class A	41 N/ μ m
Preload class B G_B	96 N
Static axial stiffness, preload class B	54 N/ μ m
Preload class C G_C	290 N
Static axial stiffness, preload class C	86 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_{HC}	1



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Calculation factor f_0	9.7
Mass bearing	0.45 kg