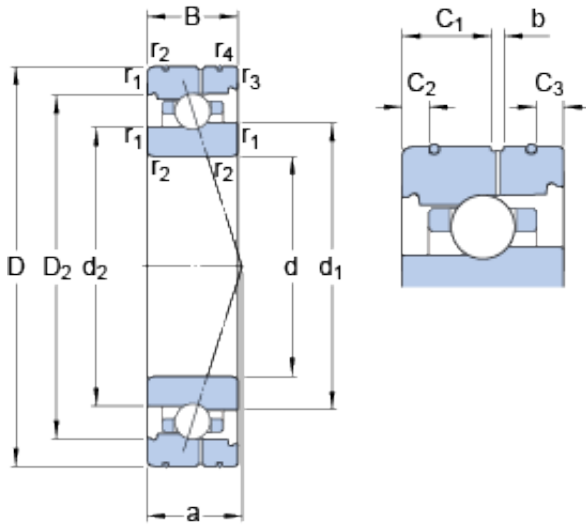




NTL BEARINGS LTD.

7013 CB/HCP4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 7013 CB/HCP4AL



7013 CB/HCP4AL Bearing 2D drawings and 3D CAD models

Size	100x65x18 mm
Bore Diameter	100 mm
Outer Diameter	65 mm
Width	18 mm
d	65 mm
D	100 mm
B	18 mm
d ₁	78 mm
d ₂	76.36 mm
D ₂	89.69 mm
b	1.5 mm
C ₁	9.7 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	20.1 mm
d _a - min.	71 mm
d _b - min.	71 mm
D _a - max.	94 mm
D _b - max.	96.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	79 mm



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Basic dynamic load rating - C	15.6 kN
Basic static load rating - C ₀	12.9 kN
Fatigue load limit - P _u	0.55 kN
Limiting speed for grease lubrication	22000 r/min
Limiting speed for oil lubrication	34000 mm/min
Ball - D _w	7.144 mm
Ball - z	27
G _{ref}	5.49 cm ³
Calculation factor - f ₀	9.7
Preload class A - G _A	49 N
Preload class B - G _B	98 N
Preload class C - G _C	295 N
Calculation factor - f	1.07
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}	1.01
Preload class A	45 N/micron
Preload class B	59 N/micron
Preload class C	94 N/micron
d ₁	78 mm
d ₂	76.36 mm
D ₂	89.69 mm
C ₁	9.7 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.	71 mm
d_b min.	71 mm
D_a max.	94 mm
D_b max.	96.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	79 mm
Basic dynamic load rating C	19.9 kN
Basic static load rating C_0	21.6 kN
Fatigue load limit P_u	0.55 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	34000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	27
Reference grease quantity G_{ref}	5.49 cm ³
Preload class A G_A	49 N
Static axial stiffness, preload class A	45 N/ μ m
Preload class B G_B	98 N
Static axial stiffness, preload class B	59 N/ μ m
Preload class C G_C	295 N
Static axial stiffness, preload class C	94 N/ μ m
Calculation factor f	1.07
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}	1.01



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Calculation factor f_0	9.7
Mass bearing	0.45 kg