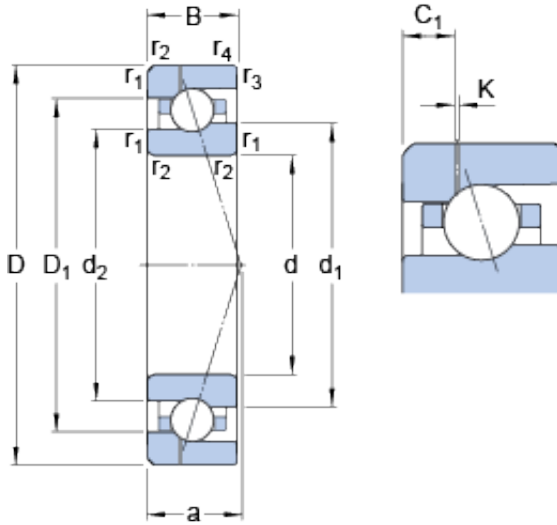




NTL BEARINGS LTD.



7013 CE/HCP4AH1 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7013 CE/HCP4AH1

7013 CE/HCP4AH1 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	77.26 mm
d ₂	74.9 mm
D ₁	87.72 mm
K	0.5 mm
C ₁	5.92 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	20.2 mm
d _a - min.	71 mm
d _b - min.	71 mm
D _a - max.	94 mm
D _b - max.	95.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	79.3 mm
Basic dynamic load rating - C	20.3 kN
Basic static load rating - C ₀	15.6 kN



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Fatigue load limit - P_u	0.655 kN
Limiting speed for grease lubrication	22000 r/min
Limiting speed for oil lubrication	34000 mm/min
Ball - D_w	8.731 mm
Ball - z	25
G_{ref}	6.2 cm ³
Calculation factor - f_0	8.4
Preload class A - G_A	110 N
Preload class B - G_B	330 N
Preload class C - G_C	650 N
Calculation factor - f	1.09
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	59 N/micron
Preload class B	92 N/micron
Preload class C	124 N/micron
d_1	77.26 mm
d_2	74.9 mm
D_1	87.72 mm
C_1	5.92 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	71 mm
d_b min.	71 mm
D_a max.	94 mm
D_b max.	95.8 mm



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r_a max.	1 mm
r_b max.	0.6 mm
d_n	79.3 mm
Basic dynamic load rating C	20.3 kN
Basic static load rating C_0	15.6 kN
Fatigue load limit P_u	0.655 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	34000 r/min
Ball diameter D_w	8.731 mm
Number of balls z	25
Reference grease quantity G_{ref}	6.2 cm ³
Preload class A G_A	110 N
Static axial stiffness, preload class A	59 N/ μ m
Preload class B G_B	330 N
Static axial stiffness, preload class B	92 N/ μ m
Preload class C G_C	650 N
Static axial stiffness, preload class C	124 N/ μ m
Calculation factor f	1.09
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	8.4
Mass bearing	0.39 kg