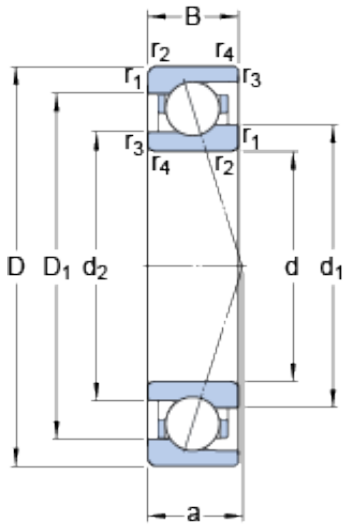




NTL BEARINGS LTD.

71913 CE/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71913 CE/HCP4A



71913 CE/HCP4A Bearing 2D drawings and 3D CAD models

Size	90x65x13 mm
Bore Diameter	90 mm
Outer Diameter	65 mm
Width	13 mm
d	65 mm
D	90 mm
B	13 mm
d ₁	72.75 mm
d ₂	70.7 mm
D ₁	82.32 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	17.5 mm
d _a - min.	69.6 mm
d _b - min.	67 mm
D _a - max.	85.4 mm
D _b - max.	88 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	74.5 mm
Basic dynamic load rating - C	16.5 kN
Basic static load rating - C ₀	12.5 kN
Fatigue load limit - P _u	0.53 kN
Limiting speed for grease	24000 r/min



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Lubrication	
Limiting speed for oil lubrication	38000 mm/min
Ball - D_w	7.938 mm
Ball - z	24
G_{ref}	2.6 cm ³
Calculation factor - f_0	8.5
Preload class A - G_A	89 N
Preload class B - G_B	266 N
Preload class C - G_C	532 N
Calculation factor - f	1.19
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.05
Calculation factor - f_{2C}	1.09
Calculation factor - f_{HC}	1.01
Preload class A	53 N/micron
Preload class B	84 N/micron
Preload class C	116 N/micron
d_1	72.75 mm
d_2	70.7 mm
D_1	82.32 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	69.6 mm
d_b min.	67 mm
D_a max.	85.4 mm
D_b max.	88 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	74.5 mm



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Basic dynamic load rating C	16.5 kN
Basic static load rating C_0	12.5 kN
Fatigue load limit P_u	0.53 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	38000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	24
Reference grease quantity G_{ref}	2.6 cm ³
Preload class A G_A	89 N
Static axial stiffness, preload class A	53 N/ μ m
Preload class B G_B	266 N
Static axial stiffness, preload class B	84 N/ μ m
Preload class C G_C	532 N
Static axial stiffness, preload class C	116 N/ μ m
Calculation factor f	1.19
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.05
Calculation factor f_{2C}	1.09
Calculation factor f_{HC}	1.01
Calculation factor f_0	8.5
Mass bearing	0.17 kg