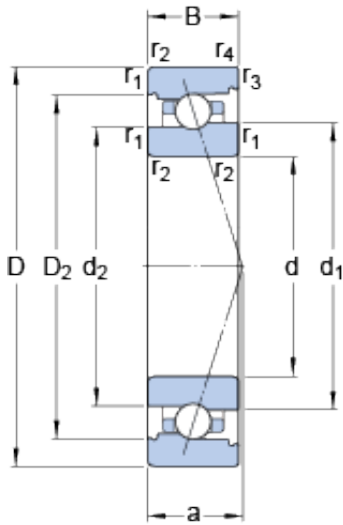




NTL BEARINGS LTD.

71913 ACB/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71913 ACB/HCP4A



71913 ACB/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	73.94 mm
d ₂	72.72 mm
D ₂	83.46 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	28.4 mm
d _a - min.	69.6 mm
d _b - min.	69.6 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	74.8 mm
Basic dynamic load rating - C	10 kN
Basic static load rating - C ₀	9 kN
Fatigue load limit - P _u	0.38 kN
Limiting speed for grease	22000 r/min



NTL BEARINGS LTD.

Lubrication	
Limiting speed for oil lubrication	34000 mm/min
Ball - D_w	5.556 mm
Ball - z	32
G_{ref}	2.96 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	60 N
Preload class B - G_B	120 N
Preload class C - G_C	360 N
Calculation factor - f	1.13
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.08
Calculation factor - f_{HC}	1.01
Preload class A	111 N/micron
Preload class B	144 N/micron
Preload class C	219 N/micron
d_1	73.94 mm
d_2	72.72 mm
D_2	83.46 mm
$r_{1,2}$ min.	1 mm



NTL BEARINGS LTD.

$r_{3,4}$ min.	0.3 mm
d_a min.	69.6 mm
d_b min.	69.6 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	74.8 mm
Basic dynamic load rating C	13.5 kN
Basic static load rating C_0	14.3 kN
Fatigue load limit P_u	0.38 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	34000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	32
Reference grease quantity G_{ref}	2.96 cm ³
Preload class A G_A	60 N
Static axial stiffness, preload class A	111 N/ μ m
Preload class B G_B	120 N
Static axial stiffness, preload class B	144 N/ μ m
Preload class C G_C	360 N
Static axial stiffness, preload class C	219 N/ μ m
Calculation factor f	1.13
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.08
Calculation factor f_{HC}	1.01



NTL BEARINGS LTD.

Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.19 kg