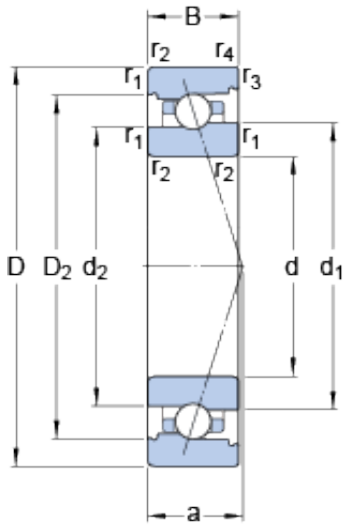




# NTL BEARINGS LTD.

## 71913 CB/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71913 CB/HCP4A



71913 CB/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 <sub>1</sub>	73.94 mm
d <sub>2</sub>	72.72 mm
D <sub>2</sub>	83.46 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	20.1 mm
d <sub>a</sub> - min.	69.6 mm
d <sub>b</sub> - min.	69.6 mm
D <sub>a</sub> - max.	85.4 mm
D <sub>b</sub> - max.	88 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	74.8 mm
Basic dynamic load rating - C	10.6 kN
Basic static load rating - C <sub>0</sub>	9.5 kN
Fatigue load limit - P <sub>u</sub>	0.4 kN
Limiting speed for grease	24000 r/min



## NTL BEARINGS LTD.

Lubrication	
Limiting speed for oil lubrication	36000 mm/min
Ball - $D_w$	5.556 mm
Ball - $z$	32
$G_{ref}$	2.96 cm <sup>3</sup>
Calculation factor - $f_0$	9.9
Preload class A - $G_A$	35 N
Preload class B - $G_B$	70 N
Preload class C - $G_C$	210 N
Calculation factor - $f$	1.13
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.08
Calculation factor - $f_{HC}$	1.01
Preload class A	43 N/micron
Preload class B	56 N/micron
Preload class C	90 N/micron
$d_1$	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
$d_a$ 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



## NTL BEARINGS LTD.

Basic dynamic load rating C	14.3 kN
Basic static load rating $C_0$	15.3 kN
Fatigue load limit $P_u$	0.4 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	36000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	32
Reference grease quantity $G_{ref}$	2.96 cm <sup>3</sup>
Preload class A $G_A$	35 N
Static axial stiffness, preload class A	43 N/ $\mu$ m
Preload class B $G_B$	70 N
Static axial stiffness, preload class B	56 N/ $\mu$ m
Preload class C $G_C$	210 N
Static axial stiffness, preload class C	90 N/ $\mu$ m
Calculation factor f	1.13
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.08
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	9.9
Mass bearing	0.19 kg