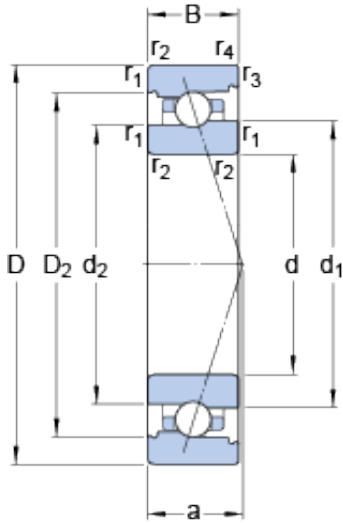




# NTL BEARINGS LTD.

## 71914 CB/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71914 CB/P4A



71914 CB/P4A Bearing 2D drawings and 3D CAD models

Size	100x70x16 mm
Bore Diameter	100 mm
Outer Diameter	70 mm
Width	16 mm
d	70 mm
D	100 mm
B	16 mm
d <sub>1</sub>	80.94 mm
d <sub>2</sub>	79.55 mm
D <sub>2</sub>	91.66 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	22.2 mm
d <sub>a</sub> - min.	74.6 mm
d <sub>b</sub> - min.	74.6 mm
D <sub>a</sub> - max.	95.4 mm
D <sub>b</sub> - max.	98 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	81.9 mm
Basic dynamic load rating - C	13.5 kN
Basic static load rating - C <sub>0</sub>	12.2 kN
Fatigue load limit - P <sub>u</sub>	0.52 kN
Limiting speed for grease	18000 r/min



## NTL BEARINGS LTD.

Lubrication	
Limiting speed for oil lubrication	28000 mm/min
Ball - $D_w$	6.35 mm
Ball - $z$	32
$G_{ref}$	4.49 cm <sup>3</sup>
Calculation factor - $f_0$	9.9
Preload class A - $G_A$	45 N
Preload class B - $G_B$	90 N
Preload class C - $G_C$	270 N
Calculation factor - $f$	1.1
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.07
Calculation factor - $f_{HC}$	1
Preload class A	44 N/micron
Preload class B	57 N/micron
Preload class C	91 N/micron
$d_1$	80.94 mm
$d_2$	79.55 mm
$D_2$	91.66 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	74.6 mm
$d_b$ min.	74.6 mm
$D_a$ max.	95.4 mm
$D_b$ max.	98 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
$d_n$	81.9 mm



## NTL BEARINGS LTD.

Basic dynamic load rating C	18.2 kN
Basic static load rating $C_0$	20 kN
Fatigue load limit $P_u$	0.52 kN
Attainable speed for grease lubrication	18000 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter $D_w$	6.35 mm
Number of balls z	32
Reference grease quantity $G_{ref}$	4.49 cm <sup>3</sup>
Preload class A $G_A$	45 N
Static axial stiffness, preload class A	44 N/ $\mu$ m
Preload class B $G_B$	90 N
Static axial stiffness, preload class B	57 N/ $\mu$ m
Preload class C $G_C$	270 N
Static axial stiffness, preload class C	91 N/ $\mu$ m
Calculation factor f	1.1
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.07
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	9.9
Mass bearing	0.35 kg