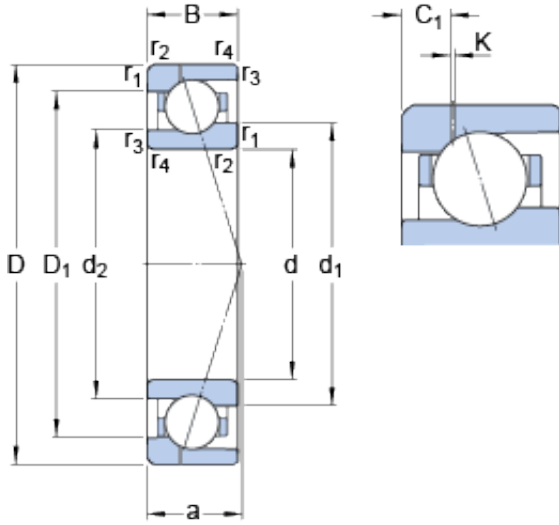




# NTL BEARINGS LTD.



## 71914 CE/P4AH1 SKF High Speed Angular Contact Ball Bearings

Bearing No. 71914 CE/P4AH1

71914 CE/P4AH1 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>	79.3 mm
d <sub>2</sub>	76.8 mm
D <sub>1</sub>	90.52 mm
K	0.5 mm
C <sub>1</sub>	4.9 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	20 mm
d <sub>a</sub> - min.	74.6 mm
d <sub>b</sub> - min.	72 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>	81.5 mm
Basic dynamic load rating - C	22.1 kN
Basic static load rating - C <sub>0</sub>	16.3 kN



## NTL BEARINGS LTD.

Fatigue load limit - $P_u$	0.68 kN
Limiting speed for grease lubrication	18500 r/min
Limiting speed for oil lubrication	28000 mm/min
Ball - $D_w$	9.525 mm
Ball - $z$	22
$G_{ref}$	4.3 cm <sup>3</sup>
Calculation factor - $f_0$	8.4
Preload class A - $G_A$	120 N
Preload class B - $G_B$	360 N
Preload class C - $G_C$	710 N
Calculation factor - $f$	1.14
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.04
Calculation factor - $f_{2C}$	1.08
Calculation factor - $f_{HC}$	1
Preload class A	52 N/micron
Preload class B	83 N/micron
Preload class C	113 N/micron
$d_1$	79.3 mm
$d_2$	76.8 mm
$D_1$	90.52 mm
$C_1$	4.9 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	74.6 mm
$d_b$ min.	72 mm
$D_a$ max.	95.4 mm
$D_b$ max.	98 mm



## NTL BEARINGS LTD.

$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
$d_n$	81.5 mm
Basic dynamic load rating C	22.1 kN
Basic static load rating $C_0$	16.3 kN
Fatigue load limit $P_u$	0.68 kN
Attainable speed for grease lubrication	18500 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter $D_w$	9.525 mm
Number of balls z	22
Reference grease quantity $G_{ref}$	4.3 cm <sup>3</sup>
Preload class A $G_A$	120 N
Static axial stiffness, preload class A	52 N/ $\mu$ m
Preload class B $G_B$	360 N
Static axial stiffness, preload class B	83 N/ $\mu$ m
Preload class C $G_C$	710 N
Static axial stiffness, preload class C	113 N/ $\mu$ m
Calculation factor f	1.14
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.04
Calculation factor $f_{2C}$	1.08
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	8.4
Mass bearing	0.32 kg