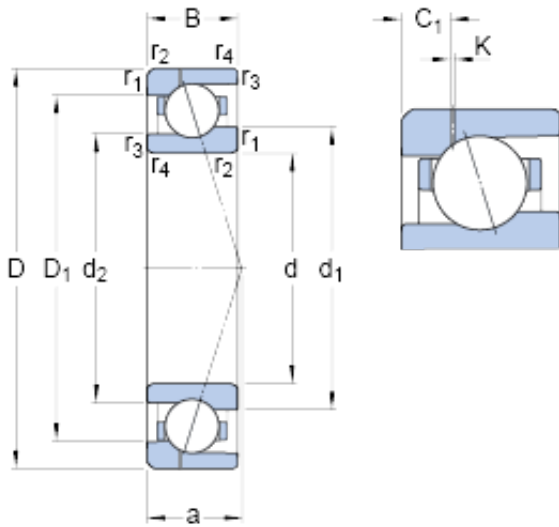




# NTN Bearing Rolamentos do Brasil Ltda.



100 mm x 140 mm x 20 mm skf 71920  
CE/P4AH1 Super-precision Angular contact ball bearings

Bearing No. 71920 CE/P4AH1

71920 CE/P4AH1 Bearing 2D drawings and 3D CAD models

Size	140x100x20 mm
Bore Diameter	140 mm
Outer Diameter	100 mm
Width	20 mm
d	100 mm
D	140 mm
B	20 mm
d <sub>1</sub>	112.4 mm
d <sub>2</sub>	109 mm
D <sub>1</sub>	127.51 mm
K	0.5 mm
C <sub>1</sub>	6.05 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	26.7 mm
d <sub>a</sub> - min.	106 mm
d <sub>b</sub> - min.	103.2 mm
D <sub>a</sub> - max.	134 mm
D <sub>b</sub> - max.	136.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	115.4 mm
Basic dynamic load rating - C	39 kN



## NTN Bearing Rolamentos do Brasil Ltda.

Basic static load rating - $C_0$	31.5 kN
Fatigue load limit - $P_u$	1.2 kN
Limiting speed for grease lubrication	13300 r/min
Limiting speed for oil lubrication	20500 mm/min
Ball - $D_w$	12.7 mm
Ball - $z$	24
$G_{ref}$	10 cm <sup>3</sup>
Calculation factor - $f_0$	8.5
Preload class A - $G_A$	208 N
Preload class B - $G_B$	624 N
Preload class C - $G_C$	1250 N
Calculation factor - $f$	1.18
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	73 N/micron
Preload class B	116 N/micron
Preload class C	160 N/micron
$d_1$	112.4 mm
$d_2$	109 mm
$D_1$	127.51 mm
$C_1$	6.05 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	106 mm
$d_b$ min.	103.2 mm
$D_a$ max.	134 mm



## NTN Bearing Rolamentos do Brasil Ltda.

$D_b$ max.	136.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	115.4 mm
Basic dynamic load rating C	39 kN
Basic static load rating $C_0$	31.5 kN
Fatigue load limit $P_u$	1.2 kN
Attainable speed for grease lubrication	13300 r/min
Attainable speed for oil-air lubrication	20500 r/min
Ball diameter $D_w$	12.7 mm
Number of balls z	24
Reference grease quantity $G_{ref}$	10 cm <sup>3</sup>
Preload class A $G_A$	208 N
Static axial stiffness, preload class A	73 N/ $\mu$ m
Preload class B $G_B$	624 N
Static axial stiffness, preload class B	116 N/ $\mu$ m
Preload class C $G_C$	1250 N
Static axial stiffness, preload class C	160 N/ $\mu$ m
Calculation factor f	1.18
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 $f_0$	8.5
Mass bearing	0.77 kg