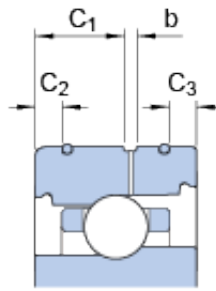
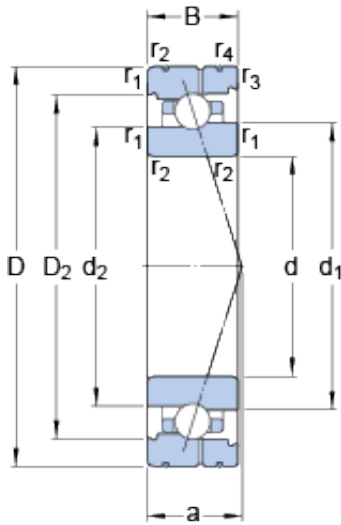




# NUP BEARING LTD



60 mm x 85 mm x 13 mm skf 71912 CB/P4AL  
Super-precision Angular contact ball bearings

Bearing No. 71912 CB/P4AL

71912 CB/P4AL Bearing 2D drawings and 3D CAD models

Size	85x60x13 mm
Bore Diameter	85 mm
Outer Diameter	60 mm
Width	13 mm
d	60 mm
D	85 mm
B	13 mm
d <sub>1</sub>	68.94 mm
d <sub>2</sub>	67.73 mm
D <sub>2</sub>	78.36 mm
b	2 mm
C <sub>1</sub>	6.5 mm
C <sub>2</sub>	3.8 mm
C <sub>3</sub>	1.7 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	19.5 mm
d <sub>a</sub> - min.	64.6 mm
d <sub>b</sub> - min.	64.6 mm
D <sub>a</sub> - max.	80.4 mm
D <sub>b</sub> - max.	83 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	69.8 mm



## NUP BEARING LTD

Basic dynamic load rating - C	10.4 kN
Basic static load rating - C <sub>0</sub>	8.8 kN
Fatigue load limit - P <sub>u</sub>	0.375 kN
Limiting speed for grease lubrication	22000 r/min
Limiting speed for oil lubrication	32000 mm/min
Ball - D <sub>w</sub>	5.556 mm
Ball - z	30
G <sub>ref</sub>	2.77 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	9.8
Preload class A - G <sub>A</sub>	34 N
Preload class B - G <sub>B</sub>	68 N
Preload class C - G <sub>C</sub>	205 N
Calculation factor - f	1.11
Calculation factor - f	1
Calculation factor - f <sub>2A</sub>	1
Calculation factor - f <sub>2B</sub>	1.02
Calculation factor - f <sub>2C</sub>	1.07
Calculation factor - f <sub>HC</sub>	1
Preload class A	36 N/micron
Preload class B	48 N/micron
Preload class C	77 N/micron
d <sub>1</sub>	68.94 mm
d <sub>2</sub>	67.73 mm
D <sub>2</sub>	78.36 mm
C <sub>1</sub>	6.5 mm
C <sub>2</sub>	3.8 mm
C <sub>3</sub>	1.7 mm
r <sub>1,2</sub> min.	1 mm



## NUP BEARING LTD

$r_{3,4}$ min.	0.3 mm
$d_a$ min.	64.6 mm
$d_b$ min.	64.6 mm
$D_a$ max.	80.4 mm
$D_b$ max.	83 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
$d_n$	69.8 mm
Basic dynamic load rating C	14 kN
Basic static load rating $C_0$	14.6 kN
Fatigue load limit $P_u$	0.375 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	32000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	30
Reference grease quantity $G_{ref}$	2.77 cm <sup>3</sup>
Preload class A $G_A$	34 N
Static axial stiffness, preload class A	36 N/ $\mu$ m
Preload class B $G_B$	68 N
Static axial stiffness, preload class B	48 N/ $\mu$ m
Preload class C $G_C$	205 N
Static axial stiffness, preload class C	77 N/ $\mu$ m
Calculation factor f	1.11
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



## NUP BEARING LTD

Calculation factor $f_0$	9.8
Mass bearing	0.2 kg