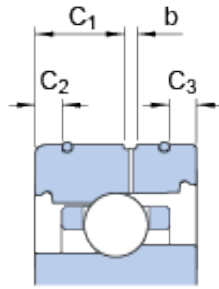
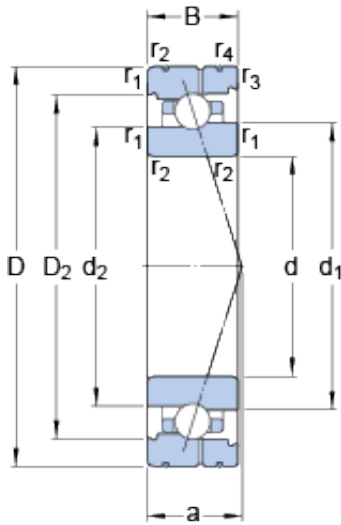




## BEARING OF AMERICA CORP.



80 mm x 110 mm x 16 mm SKF 71916 CB/P4AL  
angular contact ball bearings

Bearing No. 71916 CB/P4AL

71916 CB/P4AL Bearing 2D drawings and 3D CAD models

Size	110x80x16 mm
Bore Diameter	110 mm
Outer Diameter	80 mm
Width	16 mm
d	80 mm
D	110 mm
B	16 mm
d <sub>1</sub>	90.7 mm
d <sub>2</sub>	89.2 mm
D <sub>2</sub>	102.2 mm
b	2 mm
C <sub>1</sub>	8.6 mm
C <sub>2</sub>	3.8 mm
C <sub>3</sub>	2.7 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	24.9 mm
d <sub>a</sub> - min.	84.6 mm
d <sub>b</sub> - min.	84.6 mm
D <sub>a</sub> - max.	105 mm
D <sub>b</sub> - max.	106.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	91.7 mm



## BEARING OF AMERICA CORP.

Basic dynamic load rating - C	15.6 kN
Basic static load rating - C <sub>0</sub>	14.6 kN
Fatigue load limit - P <sub>u</sub>	0.63 kN
Limiting speed for grease lubrication	16000 r/min
Limiting speed for oil lubrication	24000 mm/min
Ball - D <sub>w</sub>	6.747 mm
Ball - z	34
G <sub>ref</sub>	5.29 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	9.9
Preload class A - G <sub>A</sub>	52 N
Preload class B - G <sub>B</sub>	105 N
Preload class C - G <sub>C</sub>	310 N
Calculation factor - f	1.13
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	49 N/micron
Preload class B	64 N/micron
Preload class C	103 N/micron
d <sub>1</sub>	90.7 mm
d <sub>2</sub>	89.2 mm
D <sub>2</sub>	102.2 mm
C <sub>1</sub>	8.6 mm
C <sub>2</sub>	3.8 mm
C <sub>3</sub>	2.7 mm
r <sub>1,2</sub> min.	1 mm



## BEARING OF AMERICA CORP.

$r_{3,4}$ min.	0.6 mm
$d_a$ min.	84.6 mm
$d_b$ min.	84.6 mm
$D_a$ max.	105 mm
$D_b$ max.	106.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	91.7 mm
Basic dynamic load rating C	21.2 kN
Basic static load rating $C_0$	24 kN
Fatigue load limit $P_u$	0.63 kN
Attainable speed for grease lubrication	16000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Ball diameter $D_w$	6.747 mm
Number of balls z	34
Reference grease quantity $G_{ref}$	5.29 cm <sup>3</sup>
Preload class A $G_A$	52 N
Static axial stiffness, preload class A	49 N/ $\mu$ m
Preload class B $G_B$	105 N
Static axial stiffness, preload class B	64 N/ $\mu$ m
Preload class C $G_C$	310 N
Static axial stiffness, preload class C	103 N/ $\mu$ m
Calculation factor f	1.13
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



## BEARING OF AMERICA CORP.

Calculation factor $f_0$	9.9
Mass bearing	0.38 kg