



80 mm x 125 mm x 22 mm SKF 7016 CB/P4A angular contact ball bearings

Bearing No. 7016 CB/P4A

7016 CB/P4A Bearing 2D drawings and 3D CAD models

Size	125x80x22 mm
Bore Diameter	125 mm
Outer Diameter	80 mm
Width	22 mm
d	80 mm
D	125 mm
B	22 mm
d <sub>1</sub>	96.7 mm
d <sub>2</sub>	94.3 mm
D <sub>2</sub>	111.4 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	24.9 mm
d <sub>a</sub> - min.	86 mm
d <sub>b</sub> - min.	86 mm
D <sub>a</sub> - max.	119 mm
D <sub>b</sub> - max.	121.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	98 mm
Basic dynamic load rating - C	26.5 kN
Basic static load rating - C <sub>0</sub>	22.8 kN
Fatigue load limit - P <sub>u</sub>	0.95 kN
Limiting speed for grease	14000 r/min



Lubrication	
Limiting speed for oil lubrication	20000 mm/min
Ball - $D_w$	9.525 mm
Ball - $z$	27
$G_{ref}$	10.49 cm3
Calculation factor - $f_0$	9.6
Preload class A - $G_A$	78 N
Preload class B - $G_B$	155 N
Preload class C - $G_C$	470 N
Calculation factor - $f$	1.07
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1
Preload class A	52 N/micron
Preload class B	68 N/micron
Preload class C	109 N/micron
$d_1$	96.7 mm
$d_2$	94.3 mm
$D_2$	111.4 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	86 mm
$d_b$ min.	86 mm
$D_a$ max.	119 mm
$D_b$ max.	121.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	98 mm



Basic dynamic load rating C	31.2 kN
Basic static load rating $C_0$	34.5 kN
Fatigue load limit $P_u$	0.95 kN
Attainable speed for grease lubrication	14000 r/min
Attainable speed for oil-air lubrication	20000 r/min
Ball diameter $D_w$	9.525 mm
Number of balls z	27
Reference grease quantity $G_{ref}$	10.49 cm <sup>3</sup>
Preload class A $G_A$	78 N
Static axial stiffness, preload class A	52 N/ $\mu$ m
Preload class B $G_B$	155 N
Static axial stiffness, preload class B	68 N/ $\mu$ m
Preload class C $G_C$	470 N
Static axial stiffness, preload class C	109 N/ $\mu$ m
Calculation factor f	1.07
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	9.6
Mass bearing	0.92 kg