



S7006 CB/P4A Bearing 2D drawings and 3D CAD models

## S7006 CB/P4A SKF Angular Contact Ball Bearings

Bearing No. S7006 CB/P4A

Size	55x30x13 mm
Bore Diameter	55 mm
Outer Diameter	30 mm
Width	13 mm
d	30 mm
D	55 mm
B	13 mm
d <sub>1</sub>	39.45 mm
d <sub>2</sub>	38.3 mm
D <sub>2</sub>	47.25 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	12.2 mm
d <sub>a</sub> - min.	34.6 mm
d <sub>a</sub> - max.	38.9 mm
d <sub>b</sub> - min.	34.6 mm
d <sub>b</sub> - max.	37.7 mm
D <sub>a</sub> - max.	50.4 mm
D <sub>b</sub> - max.	51.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	6.5 kN
Basic static load rating - C <sub>0</sub>	4.2 kN
Fatigue load limit - P <sub>u</sub>	0.176 kN

Limiting speed for grease lubrication	36000 r/min
Ball - $D_w$	4.762 mm
Ball - $z$	20
Calculation factor - $f_0$	9.4
Preload class A - $G_A$	22 N
Preload class B - $G_B$	42 N
Preload class C - $G_C$	125 N
Calculation factor - $f$	1.03
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	22 N/micron
Preload class B	29 N/micron
Preload class C	46 N/micron
$d_1$	39.45 mm
$d_2$	38.3 mm
$D_2$	47.25 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	34.6 mm
$d_a$ max.	38.9 mm
$d_b$ min.	34.6 mm
$d_b$ max.	37.7 mm
$D_a$ max.	50.4 mm
$D_b$ max.	51.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	8.84 kN

Basic static load rating $C_0$	7.1 kN
Fatigue load limit $P_u$	0.176 kN
Attainable speed for grease lubrication	36000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls $z$	20
Preload class A $G_A$	22 N
Static axial stiffness, preload class A	22 N/ $\mu$ m
Preload class B $G_B$	42 N
Static axial stiffness, preload class B	29 N/ $\mu$ m
Preload class C $G_C$	125 N
Static axial stiffness, preload class C	46 N/ $\mu$ m
Calculation factor $f$	1.03
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 $f_0$	9.4
Mass bearing	0.13 kg