



30 mm x 55 mm x 13 mm SKF S7006  
ACB/HCP4A angular contact ball bearings

Bearing No. S7006 ACB/HCP4A

S7006 ACB/HCP4A Bearing 2D drawings and 3D CAD models

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	16.5 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	6.2 kN
Basic static load rating - C <sub>0</sub>	3.9 kN
Fatigue load limit - P <sub>u</sub>	0.166 kN



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Limiting speed for grease lubrication	40000 r/min
Ball - $D_w$	4.762 mm
Ball - $z$	20
Calculation factor - $e$	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	36 N
Preload class B - $G_B$	72 N
Preload class C - $G_C$	215 N
Calculation factor - $f$	1.03
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1.01
Preload class A	64 N/micron
Preload class B	82 N/micron
Preload class C	124 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



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$d_a$ 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	8.32 kN
Basic static load rating $C_0$	6.7 kN
Fatigue load limit $P_u$	0.166 kN
Attainable speed for grease lubrication	40000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls z	20
Preload class A $G_A$	36 N
Static axial stiffness, preload class A	64 N/ $\mu$ m
Preload class B $G_B$	72 N
Static axial stiffness, preload class B	82 N/ $\mu$ m
Preload class C $G_C$	215 N
Static axial stiffness, preload class C	124 N/ $\mu$ m
Calculation factor f	1.03
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38



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Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67
Mass bearing	0.13 kg