



## Baochen Machinery Technology Co., Ltd



### 30 mm x 47 mm x 9 mm SKF S71906 CD/HCP4A angular contact ball bearings

Bearing No. S71906 CD/HCP4A

S71906 CD/HCP4A Bearing 2D drawings and 3D CAD models

Size	47x30x9 mm
Bore Diameter	47 mm
Outer Diameter	30 mm
Width	9 mm
d	30 mm
D	47 mm
B	9 mm
d <sub>1</sub>	35.6 mm
d <sub>2</sub>	35.6 mm
D <sub>2</sub>	44.15 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	9.7 mm
d <sub>a</sub> - min.	32 mm
d <sub>a</sub> - max.	35.1 mm
d <sub>b</sub> - min.	32 mm
d <sub>b</sub> - max.	35.1 mm
D <sub>a</sub> - max.	45 mm
D <sub>b</sub> - max.	45.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
Basic dynamic load rating - C	7.2 kN
Basic static load rating - C <sub>0</sub>	4.6 kN
Fatigue load limit - P <sub>u</sub>	0.193 kN



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Limiting speed for grease lubrication	38000 r/min
Ball - $D_w$	4.762 mm
Ball - $z$	20
Calculation factor - $f_0$	10.4
Preload class A - $G_A$	25 N
Preload class B - $G_B$	50 N
Preload class C - $G_C$	100 N
Preload class D - $G_D$	200 N
Calculation factor - $f$	1.08
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.07
Calculation factor - $f_{2C}$	1.12
Calculation factor - $f_{2D}$	1.18
Calculation factor - $f_{HC}$	1.04
Preload class A	29 N/micron
Preload class B	39 N/micron
Preload class C	53 N/micron
Preload class D	74 N/micron
$d_1$	35.6 mm
$d_2$	35.6 mm
$D_2$	44.15 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
$d_a$ min.	32 mm
$d_a$ max.	35.1 mm
$d_b$ min.	32 mm
$d_b$ max.	35.1 mm
$D_a$ max.	45 mm
$D_b$ max.	45.6 mm



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$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
Basic dynamic load rating C	7.15 kN
Basic static load rating $C_0$	4.55 kN
Fatigue load limit $P_u$	0.193 kN
Attainable speed for grease lubrication	38000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls z	20
Preload class A $G_A$	25 N
Static axial stiffness, preload class A	29 N/ $\mu$ m
Preload class B $G_B$	50 N
Static axial stiffness, preload class B	39 N/ $\mu$ m
Preload class C $G_C$	100 N
Static axial stiffness, preload class C	53 N/ $\mu$ m
Preload class D $G_D$	200 N
Static axial stiffness, preload class D	74 N/ $\mu$ m
Calculation factor f	1.08
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12
Calculation factor $f_{2D}$	1.18
Calculation factor $f_{HC}$	1.04
Calculation factor $f_0$	10.4
Mass bearing	0.044 kg