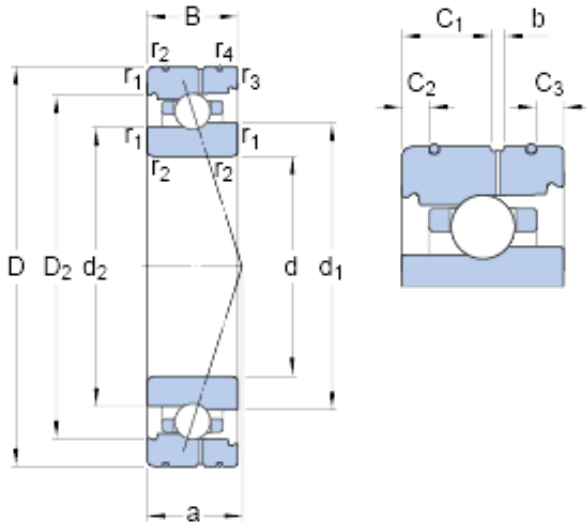




# ALL TYPES BEARINGS BUSINESS CO.,LTD.



60 mm x 95 mm x 18 mm SKF 7012  
CB/HCP4AL angular contact ball bearings

Bearing No. 7012 CB/HCP4AL

7012 CB/HCP4AL Bearing 2D drawings and 3D CAD models

Size	95x60x18 mm
Bore Diameter	95 mm
Outer Diameter	60 mm
Width	18 mm
d	60 mm
D	95 mm
B	18 mm
d <sub>1</sub>	73.18 mm
d <sub>2</sub>	71.65 mm
D <sub>2</sub>	84.39 mm
b	2.2 mm
C <sub>1</sub>	9 mm
C <sub>2</sub>	4.3 mm
C <sub>3</sub>	2.8 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	19.5 mm
d <sub>a</sub> - min.	66 mm
d <sub>b</sub> - min.	66 mm
D <sub>a</sub> - max.	89 mm
D <sub>b</sub> - max.	91.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	74.2 mm



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Basic dynamic load rating - C	14.6 kN
Basic static load rating - C <sub>0</sub>	12 kN
Fatigue load limit - P <sub>u</sub>	0.51 kN
Limiting speed for grease lubrication	24000 r/min
Limiting speed for oil lubrication	36000 mm/min
Ball - D <sub>w</sub>	6.747 mm
Ball - z	28
G <sub>ref</sub>	5.03 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	9.7
Preload class A - G <sub>A</sub>	48 N
Preload class B - G <sub>B</sub>	96 N
Preload class C - G <sub>C</sub>	290 N
Calculation factor - f	1.06
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>	1.05
Calculation factor - f <sub>HC</sub>	1.01
Preload class A	46 N/micron
Preload class B	60 N/micron
Preload class C	95 N/micron
d <sub>1</sub>	73.18 mm
d <sub>2</sub>	71.65 mm
D <sub>2</sub>	84.39 mm
C <sub>1</sub>	9 mm
C <sub>2</sub>	4.3 mm
C <sub>3</sub>	2.8 mm
r <sub>1,2</sub> min.	1.1 mm



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$r_{3,4}$ min.	0.6 mm
$d_a$ min.	66 mm
$d_b$ min.	66 mm
$D_a$ max.	89 mm
$D_b$ max.	91.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	74.2 mm
Basic dynamic load rating C	19.5 kN
Basic static load rating $C_0$	20 kN
Fatigue load limit $P_u$	0.51 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	36000 r/min
Ball diameter $D_w$	6.747 mm
Number of balls z	28
Reference grease quantity $G_{ref}$	5.03 cm <sup>3</sup>
Preload class A $G_A$	48 N
Static axial stiffness, preload class A	46 N/ $\mu$ m
Preload class B $G_B$	96 N
Static axial stiffness, preload class B	60 N/ $\mu$ m
Preload class C $G_C$	290 N
Static axial stiffness, preload class C	95 N/ $\mu$ m
Calculation factor f	1.06
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1.01



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Calculation factor $f_0$	9.7
Mass bearing	0.43 kg