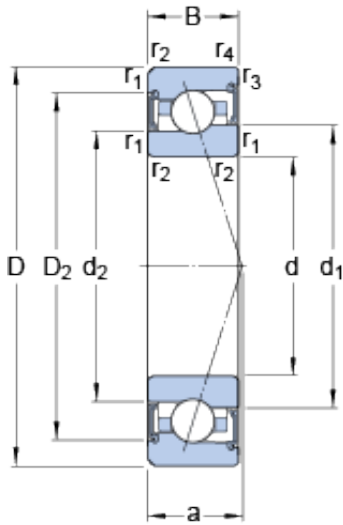




# AMERICAN BEARING MFG.CORP.



60 mm x 95 mm x 18 mm SKF S7012  
ACE/HCP4A angular contact ball bearings

Bearing No. S7012 ACE/HCP4A

S7012 ACE/HCP4A 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>	72.74 mm
d <sub>2</sub>	70.6 mm
D <sub>2</sub>	85.4 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	27.3 mm
d <sub>a</sub> - min.	66 mm
d <sub>a</sub> - max.	72.1 mm
d <sub>b</sub> - min.	66 mm
d <sub>b</sub> - max.	70 mm
D <sub>a</sub> - max.	89 mm
D <sub>b</sub> - max.	90.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	16.3 kN
Basic static load rating - C <sub>0</sub>	12.2 kN
Fatigue load limit - P <sub>u</sub>	0.52 kN



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Limiting speed for grease lubrication	22000 r/min
Ball - $D_w$	7.938 mm
Ball - z	25
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 - $G_A$	150 N
Preload class B - $G_B$	440 N
Preload class C - $G_C$	870 N
Calculation factor - f	1.08
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.06
Calculation factor - $f_{HC}$	1.01
Preload class A	135 N/micron
Preload class B	200 N/micron
Preload class C	260 N/micron
$d_1$	72.74 mm
$d_2$	70.6 mm
$D_2$	85.4 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	66 mm



## AMERICAN BEARING MFG.CORP.

$d_a$ max.	72.1 mm
$d_b$ min.	66 mm
$d_b$ max.	70 mm
$D_a$ max.	89 mm
$D_b$ max.	90.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	16.3 kN
Basic static load rating $C_0$	12.2 kN
Fatigue load limit $P_u$	0.52 kN
Attainable speed for grease lubrication	22000 r/min
Ball diameter $D_w$	7.938 mm
Number of balls z	25
Preload class A $G_A$	150 N
Static axial stiffness, preload class A	135 N/ $\mu$ m
Preload class B $G_B$	440 N
Static axial stiffness, preload class B	200 N/ $\mu$ m
Preload class C $G_C$	870 N
Static axial stiffness, preload class C	260 N/ $\mu$ m
Calculation factor f	1.08
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.06
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



## AMERICAN BEARING MFG.CORP.

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	0.4 kg