



UGE BEARING INDUSTRIAL CO., LTD.



60 mm x 95 mm x 18 mm SKF 7012
ACB/HCP4A Light pressure contact seals
Precision Bearings

Bearing No. 7012 ACB/HCP4A

7012 ACB/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 ₁	73.18 mm
d ₂	71.65 mm
D ₂	84.39 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	27.2 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	13.5 kN
Basic static load rating - C ₀	11.4 kN
Fatigue load limit - P _u	0.48 kN



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Limiting speed for grease lubrication	22000 r/min
Limiting speed for oil lubrication	32000 mm/min
Ball - D_w	6.747 mm
Ball - z	28
G_{ref}	5.03 cm ³
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	80 N
Preload class B - G_B	160 N
Preload class C - G_C	480 N
Calculation factor - f	1.06
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	120 N/micron
Preload class B	152 N/micron
Preload class C	228 N/micron
d_1	73.18 mm
d_2	71.65 mm
D_2	84.39 mm



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$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ 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	18.2 kN
Basic static load rating C_0	19 kN
Fatigue load limit P_u	0.48 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	32000 r/min
Ball diameter D_w	6.747 mm
Number of balls z	28
Reference grease quantity G_{ref}	5.03 cm ³
Preload class A G_A	80 N
Static axial stiffness, preload class A	120 N/ μ m
Preload class B G_B	160 N
Static axial stiffness, preload class B	152 N/ μ m
Preload class C G_C	480 N
Static axial stiffness, preload class C	228 N/ μ m
Calculation factor f	1.06
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05



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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
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	0.43 kg