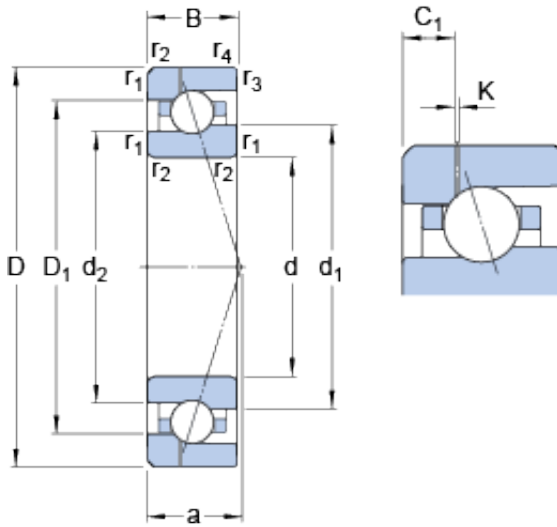




NTL BEARINGS LTD.



7012 ACE/P4AH1 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7012 ACE/P4AH1

7012 ACE/P4AH1 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	72.74 mm
d ₂	70.6 mm
D ₁	82.22 mm
K	0.5 mm
C ₁	6.3 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	27.3 mm
d _a - min.	66 mm
d _b - min.	66 mm
D _a - max.	89 mm
D _b - max.	90.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	74.6 mm
Basic dynamic load rating - C	16.3 kN
Basic static load rating - C ₀	12.2 kN



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Fatigue load limit - P_u	0.52 kN
Limiting speed for grease lubrication	18000 r/min
Limiting speed for oil lubrication	28000 mm/min
Ball - D_w	7.938 mm
Ball - z	25
G_{ref}	5.3 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	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
Preload class A	122 N/micron
Preload class B	180 N/micron
Preload class C	235 N/micron
d_1	72.74 mm
d_2	70.6 mm



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D_1	82.22 mm
C_1	6.3 mm
$r_{1,2}$ 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.	90.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	74.6 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	18000 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	25
Reference grease quantity G_{ref}	5.3 cm ³
Preload class A G_A	150 N
Static axial stiffness, preload class A	122 N/ μ m
Preload class B G_B	440 N
Static axial stiffness, preload class B	180 N/ μ m
Preload class C G_C	870 N
Static axial stiffness, preload class C	235 N/ μ m
Calculation factor f	1.08
Calculation factor f_1	0.99
Calculation factor f_{2A}	1



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Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.06
Calculation factor f_{HC}	1
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	0.42 kg