



60 mm x 85 mm x 13 mm SKF 71912 ACE/P4AL Angular contact ball bearing

Bearing No. 71912 ACE/P4AL

71912 ACE/P4AL Bearing 2D drawings and 3D CAD models

Size	85x60x13 mm
Bore Diameter	85 mm
Outer Diameter	60 mm
Width	13 mm
d	60 mm
D	85 mm
B	13 mm
d ₁	67.75 mm
d ₂	65.7 mm
D ₁	77.3 mm
b	2.2 mm
C ₁	6.5 mm
C ₂	2.5 mm
C ₃	2 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	24.6 mm
d _a - min.	64.6 mm
d _b - min.	62 mm
D _a - max.	80.4 mm
D _b - max.	83 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	69.6 mm

Basic dynamic load rating - C	15.3 kN
Basic static load rating - C ₀	11.2 kN
Fatigue load limit - P _u	0.475 kN
Limiting speed for grease lubrication	19500 r/min
Limiting speed for oil lubrication	30000 mm/min
Ball - D _w	7.938 mm
Ball - z	23
G _{ref}	2.5 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	139 N
Preload class B - G _B	418 N
Preload class C - G _C	836 N
Calculation factor - f	1.13
Calculation factor - f ₁	0.99
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.04
Calculation factor - f _{2C}	1.07
Calculation factor - f _{HC}	1
Preload class A	115 N/micron
Preload class B	173 N/micron

Preload class C	228 N/micron
d_1	67.75 mm
d_2	65.7 mm
D_1	77.3 mm
C_1	6.5 mm
C_2	2.5 mm
C_3	2 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	64.6 mm
d_b min.	62 mm
D_a max.	80.4 mm
D_b max.	83 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	69.6 mm
Basic dynamic load rating C	15.3 kN
Basic static load rating C_0	11.2 kN
Fatigue load limit P_u	0.475 kN
Attainable speed for grease lubrication	19500 r/min
Attainable speed for oil-air lubrication	30000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	23
Reference grease quantity G_{ref}	2.5 cm ³
Preload class A G_A	139 N
Static axial stiffness, preload class A	115 N/ μ m
Preload class B G_B	418 N
Static axial stiffness, preload class B	173 N/ μ m
Preload class C G_C	836 N

Static axial stiffness, preload class C	228 N/ μ m
Calculation factor f	1.13
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.07
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	0.19 kg