



S71906 ACE/HCP4A Bearing 2D drawings and 3D CAD models

S71906 ACE/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S71906 ACE/HCP4A

Size	47x30x9 mm
Bore Diameter	47 mm
Outer Diameter	30 mm
Width	9 mm
d	30 mm
D	47 mm
B	9 mm
d ₁	35.8 mm
d ₂	34.4 mm
D ₂	43.4 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	14.3 mm
d _a - min.	32 mm
d _a - max.	35.4 mm
d _b - min.	32 mm
d _b - max.	34 mm
D _a - max.	45 mm
D _b - max.	46.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
Basic dynamic load rating - C	5.3 kN
Basic static load rating - C ₀	3.1 kN
Fatigue load limit - P _u	0.132 kN



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Limiting speed for grease lubrication	44000 r/min
Ball - D_w	4.762 mm
Ball - z	18
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	48 N
Preload class B - G_B	145 N
Preload class C - G_C	290 N
Calculation factor - f	1.08
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.08
Calculation factor - f_{HC}	1.01
Preload class A	61 N/micron
Preload class B	94 N/micron
Preload class C	123 N/micron
d_1	35.8 mm
d_2	34.4 mm
D_2	43.4 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	32 mm



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d_a max.	35.4 mm
d_b min.	32 mm
d_b max.	34 mm
D_a max.	45 mm
D_b max.	46.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
Basic dynamic load rating C	5.27 kN
Basic static load rating C_0	3.1 kN
Fatigue load limit P_u	0.132 kN
Attainable speed for grease lubrication	44000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	18
Preload class A G_A	48 N
Static axial stiffness, preload class A	61 N/ μ m
Preload class B G_B	145 N
Static axial stiffness, preload class B	94 N/ μ m
Preload class C G_C	290 N
Static axial stiffness, preload class C	123 N/ μ m
Calculation factor f	1.08
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.08
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



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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	0.043 kg