



SKF 706 ACD/HCP4AH angular contact ball bearings

Bearing No. 706 ACD/HCP4AH

706 ACD/HCP4AH Bearing 2D drawings and 3D CAD models

Size	17x6x6 mm
Bore Diameter	17 mm
Outer Diameter	6 mm
Width	6 mm
d	6 mm
D	17 mm
B	6 mm
d ₁	9.5 mm
d ₂	9.5 mm
D ₁	13.5 mm
K	0.5 mm
C ₁	3.65 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	5.7 mm
d _a - min.	8 mm
d _b - min.	8 mm
D _a - max.	15 mm
D _b - max.	16.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	10.3 mm
Basic dynamic load rating - C	2 kN
Basic static load rating - C ₀	0.75 kN



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Fatigue load limit - P_u	0.032 kN
Limiting speed for grease lubrication	130000 r/min
Limiting speed for oil lubrication	190000 mm/min
Ball - D_w	3.175 mm
Ball - z	8
G_{ref}	0.09 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	10 N
Preload class B - G_B	20 N
Preload class C - G_C	40 N
Preload class D - G_D	80 N
Calculation factor - f	1.01
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_{2D}	1.08
Calculation factor - f_{HC}	1.02
Preload class A	21 N/micron
Preload class B	27 N/micron
Preload class C	36 N/micron



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Preload class D	47 N/micron
d_1	9.5 mm
d_2	9.5 mm
D_1	13.5 mm
C_1	3.65 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	8 mm
d_b min.	8 mm
D_a max.	15 mm
D_b max.	16.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	10.3 mm
Basic dynamic load rating C	1.95 kN
Basic static load rating C_0	0.75 kN
Fatigue load limit P_u	0.032 kN
Attainable speed for grease lubrication	130000 r/min
Attainable speed for oil-air lubrication	190000 r/min
Ball diameter D_w	3.175 mm
Number of balls z	8
Reference grease quantity G_{ref}	0.09 cm ³
Preload class A G_A	10 N
Static axial stiffness, preload class A	21 N/ μ m
Preload class B G_B	20 N
Static axial stiffness, preload class B	27 N/ μ m
Preload class C G_C	40 N
Static axial stiffness, preload class C	36 N/ μ m



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Preload class D G_D	80 N
Static axial stiffness, preload class D	47 N/ μ m
Calculation factor f	1.01
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_{2D}	1.08
Calculation factor f_{HC}	1.02
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	0.005 kg