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71904 ACD/HCP4A Bearing 2D drawings and 3D CAD models

20 mm x 37 mm x 9 mm SKF 71904 ACD/HCP4A angular contact ball bearings

Bearing No. 71904 ACD/HCP4A

Size	37x20x9 mm
Bore Diameter	37 mm
Outer Diameter	20 mm
Width	9 mm
d	20 mm
D	37 mm
B	9 mm
d ₁	25.6 mm
d ₂	25.6 mm
D ₁	31.4 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	11.2 mm
d _a - min.	22 mm
d _b - min.	22 mm
D _a - max.	35 mm
D _b - max.	35.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
d _n	26.8 mm
Basic dynamic load rating - C	5.7 kN
Basic static load rating - C ₀	3 kN
Fatigue load limit - P _u	0.129 kN
Limiting speed for grease	45000 r/min



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Lubrication	
Limiting speed for oil lubrication	67000 mm/min
Ball - D_w	4.762 mm
Ball - z	15
G_{ref}	0.45 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	35 N
Preload class B - G_B	70 N
Preload class C - G_C	140 N
Preload class D - G_D	280 N
Calculation factor - f	1.05
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.17
Calculation factor - f_{HC}	1.04
Preload class A	56 N/micron
Preload class B	73 N/micron
Preload class C	95 N/micron
Preload class D	125 N/micron



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d_1	25.6 mm
d_2	25.6 mm
D_1	31.4 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	22 mm
d_b min.	22 mm
D_a max.	35 mm
D_b max.	35.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
d_n	26.8 mm
Basic dynamic load rating C	5.72 kN
Basic static load rating C_0	3.05 kN
Fatigue load limit P_u	0.129 kN
Attainable speed for grease lubrication	45000 r/min
Attainable speed for oil-air lubrication	67000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	15
Reference grease quantity G_{ref}	0.45 cm ³
Preload class A G_A	35 N
Static axial stiffness, preload class A	56 N/ μ m
Preload class B G_B	70 N
Static axial stiffness, preload class B	73 N/ μ m
Preload class C G_C	140 N
Static axial stiffness, preload class C	95 N/ μ m
Preload class D G_D	280 N
Static axial stiffness, preload	125 N/ μ m



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class D	
Calculation factor f	1.05
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.17
Calculation factor f_{HC}	1.04
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	0.033 kg