



SKF-SUDAMERICAN,S.A.



71910 ACD/HCP4A Bearing 2D drawings and 3D CAD models

50 mm x 72 mm x 12 mm SKF 71910 ACD/HCP4A angular contact ball bearings

Bearing No. 71910 ACD/HCP4A

Size	72x50x12 mm
Bore Diameter	72 mm
Outer Diameter	50 mm
Width	12 mm
d	50 mm
D	72 mm
B	12 mm
d ₁	57.1 mm
d ₂	57.1 mm
D ₁	64.9 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	20.3 mm
d _a - min.	53.2 mm
d _b - min.	53.2 mm
D _a - max.	68.8 mm
D _b - max.	70.6 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	58.7 mm
Basic dynamic load rating - C	12.7 kN
Basic static load rating - C ₀	9.8 kN
Fatigue load limit - P _u	0.415 kN
Limiting speed for grease	19000 r/min



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Lubrication	
Limiting speed for oil lubrication	30000 mm/min
Ball - D_w	6.35 mm
Ball - z	25
G_{ref}	1.74 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	80 N
Preload class B - G_B	160 N
Preload class C - G_C	320 N
Preload class D - G_D	640 N
Calculation factor - f	1.13
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	117 N/micron
Preload class B	152 N/micron
Preload class C	200 N/micron
Preload class D	266 N/micron



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d_1	57.1 mm
d_2	57.1 mm
D_1	64.9 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	53.2 mm
d_b min.	53.2 mm
D_a max.	68.8 mm
D_b max.	70.6 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	58.7 mm
Basic dynamic load rating C	12.7 kN
Basic static load rating C_0	9.8 kN
Fatigue load limit P_u	0.415 kN
Attainable speed for grease lubrication	19000 r/min
Attainable speed for oil-air lubrication	30000 r/min
Ball diameter D_w	6.35 mm
Number of balls z	25
Reference grease quantity G_{ref}	1.74 cm ³
Preload class A G_A	80 N
Static axial stiffness, preload class A	117 N/ μ m
Preload class B G_B	160 N
Static axial stiffness, preload class B	152 N/ μ m
Preload class C G_C	320 N
Static axial stiffness, preload class C	200 N/ μ m
Preload class D G_D	640 N
Static axial stiffness, preload class D	266 N/ μ m



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class D	
Calculation factor f	1.13
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	0.12 kg