



Bearing Manufacturing of America



S7201 ACD/HCP4A Bearing 2D drawings and 3D CAD models

12 mm x 32 mm x 10 mm 12 mm x 32 mm x 10 mm SKF S7201 ACD/HCP4A angular contact ball bearings

Bearing No. S7201 ACD/HCP4A

Size	32x12x10 mm
Bore Diameter	32 mm
Outer Diameter	12 mm
Width	10 mm
d	12 mm
D	32 mm
B	10 mm
d ₁	18.6 mm
d ₂	18.6 mm
D ₂	26.6 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	10.2 mm
d _a - min.	16.2 mm
d _a - max.	18 mm
d _b - min.	16.2 mm
d _b - max.	18 mm
D _a - max.	27.8 mm
D _b - max.	29.6 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	5.7 kN
Basic static load rating - C ₀	2.4 kN



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Fatigue load limit - P_u	0.104 kN
Limiting speed for grease lubrication	56000 r/min
Ball - D_w	5.556 mm
Ball - z	10
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	1.02
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.06
Calculation factor - f_{HC}	1.01
Preload class A	45 N/micron
Preload class B	58 N/micron
Preload class C	75 N/micron
Preload class D	100 N/micron
d_1	18.6 mm



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d_2	18.6 mm
D_2	26.6 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	16.2 mm
d_a max.	18 mm
d_b min.	16.2 mm
d_b max.	18 mm
D_a max.	27.8 mm
D_b max.	29.6 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
Basic dynamic load rating C	5.72 kN
Basic static load rating C_0	2.45 kN
Fatigue load limit P_u	0.104 kN
Attainable speed for grease lubrication	56000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	10
Preload class A G_A	35 N
Static axial stiffness, preload class A	45 N/ μ m
Preload class B G_B	70 N
Static axial stiffness, preload class B	58 N/ μ m
Preload class C G_C	140 N
Static axial stiffness, preload class C	75 N/ μ m
Preload class D G_D	280 N
Static axial stiffness, preload class D	100 N/ μ m
Calculation factor f	1.02
Calculation factor f_1	0.99
Calculation factor f_{2A}	1



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Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.06
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
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	0.034 kg