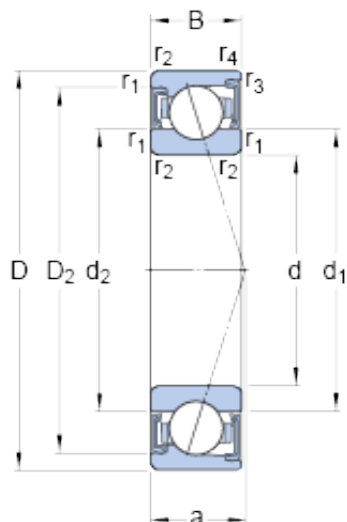




Bearing de Mexico, S.A.

12 mm x 28 mm x 8 mm SKF S7001 ACD/HCP4A angular contact ball bearings

Bearing No. S7001 ACD/HCP4A



S7001 ACD/HCP4A Bearing 2D drawings and 3D CAD models

Size	28x12x8 mm
Bore Diameter	28 mm
Outer Diameter	12 mm
Width	8 mm
d	12 mm
D	28 mm
B	8 mm
d ₁	17.1 mm
d ₂	17.1 mm
D ₂	25.5 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	8.7 mm
d _a - min.	14 mm
d _a - max.	16.7 mm
d _b - min.	14 mm
d _b - max.	16.7 mm
D _a - max.	26 mm
D _b - max.	26.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
Basic dynamic load rating - C	4.4 kN
Basic static load rating - C ₀	1.8 kN
Fatigue load limit - P _u	0.078 kN



Bearing de Mexico, S.A.

Limiting speed for grease lubrication	70000 r/min
Ball - D_w	4.762 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	25 N
Preload class B - G_B	50 N
Preload class C - G_C	100 N
Preload class D - G_D	200 N
Calculation factor - f	1.03
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	38 N/micron
Preload class B	49 N/micron
Preload class C	64 N/micron
Preload class D	84 N/micron
d_1	17.1 mm
d_2	17.1 mm
D_2	25.5 mm



Bearing de Mexico, S.A.

$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	14 mm
d_a max.	16.7 mm
d_b min.	14 mm
d_b max.	16.7 mm
D_a max.	26 mm
D_b max.	26.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
Basic dynamic load rating C	4.36 kN
Basic static load rating C_0	1.83 kN
Fatigue load limit P_u	0.078 kN
Attainable speed for grease lubrication	70000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	10
Preload class A G_A	25 N
Static axial stiffness, preload class A	38 N/ μ m
Preload class B G_B	50 N
Static axial stiffness, preload class B	49 N/ μ m
Preload class C G_C	100 N
Static axial stiffness, preload class C	64 N/ μ m
Preload class D G_D	200 N
Static axial stiffness, preload class D	84 N/ μ m
Calculation factor f	1.03
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05



Bearing de Mexico, S.A.

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	0.018 kg