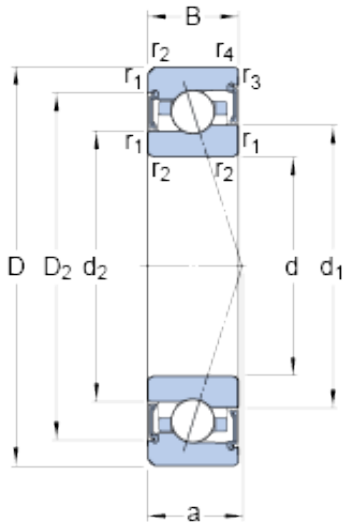




BEARING DRIVESHAFT, INC.



S7001 ACE/P4A Bearing 2D drawings and 3D CAD models

12 mm x 28 mm x 8 mm SKF S7001 ACE/P4A
angular contact ball bearings

Bearing No. S7001 ACE/P4A

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	17.5 mm
d ₂	16.5 mm
D ₂	24.35 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	8.8 mm
d _a - min.	14 mm
d _a - max.	17.1 mm
d _b - min.	14 mm
d _b - max.	16.1 mm
D _a - max.	26 mm
D _b - max.	26.6 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
Basic dynamic load rating - C	3.1 kN
Basic static load rating - C ₀	1.3 kN
Fatigue load limit - P _u	0.054 kN



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Limiting speed for grease lubrication	73000 r/min
Ball - D_w	3.969 mm
Ball - z	12
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	28 N
Preload class B - G_B	85 N
Preload class C - G_C	170 N
Calculation factor - f	1.02
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.06
Calculation factor - f_{HC}	1
Preload class A	34 N/micron
Preload class B	50 N/micron
Preload class C	66 N/micron
d_1	17.5 mm
d_2	16.5 mm
D_2	24.35 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	14 mm



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d_a max.	17.1 mm
d_b min.	14 mm
d_b max.	16.1 mm
D_a max.	26 mm
D_b max.	26.6 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
Basic dynamic load rating C	3.07 kN
Basic static load rating C_0	1.27 kN
Fatigue load limit P_u	0.054 kN
Attainable speed for grease lubrication	73000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	12
Preload class A G_A	28 N
Static axial stiffness, preload class A	34 N/ μ m
Preload class B G_B	85 N
Static axial stiffness, preload class B	50 N/ μ m
Preload class C G_C	170 N
Static axial stiffness, preload class C	66 N/ μ m
Calculation factor f	1.02
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.06
Calculation factor f_{HC}	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38



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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	0.021 kg