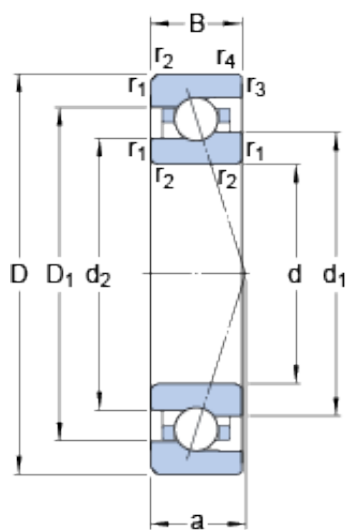




Bearing No. 7001 ACE/HCP4A

D	28 mm
d	12 mm
B	8 mm
a	8.8 mm
Ball - z	12
Size (mm)	28x12x8
Width (mm)	8
Mass bearing	0.019 kg
d _n	18.5 mm
d _n	18.5 mm
D ₁	22.45 mm
d ₁	17.5 mm
d ₂	16.5 mm
D ₁	22.45 mm
d ₂	16.5 mm
d ₁	17.5 mm
Bearing number	7001 ACE/HCP4A
Preload class A	37 N/micron
G _{ref}	0.31 cm3
Preload class C	73 N/micron
Preload class B	56 N/micron
Number of balls z	12
Bore Diameter (mm)	28
r _b max.	0.15 mm
r _a max.	0.3 mm
D _b max.	26.6 mm
D _a max.	26 mm
d _a min.	14 mm
d _b min.	14 mm

Outer Diameter (mm)	12
D_b - max.	26.6 mm
d_a - min.	14 mm
Calculation factor e	0.68
Calculation factor f	1.02
r_b - max.	0.15 mm
D_a - max.	26 mm
r_a - max.	0.3 mm
$r_{3,4}$ min.	0.15 mm
$r_{1,2}$ min.	0.3 mm
Ball - D_w	3.969 mm
d_b - min.	14 mm
$r_{1,2}$ - min.	0.3 mm
$r_{3,4}$ - min.	0.15 mm
Calculation factor - e	0.68
Calculation factor - f	1.02
Basic dynamic load rating C	3.07 kN
Ball diameter D_w	3.969 mm
Preload class B G_B	85 N
Preload class C G_C	170 N
Basic dynamic load rating - C	3.1 kN
Preload class A G_A	28 N
Preload class B - G_B	85 N
Preload class C - G_C	170 N
Preload class A - G_A	28 N
Fatigue load limit P_u	0.054 kN
Calculation factor f_1	0.99
Calculation factor f_{2C}	1.06
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01

Calculation factor f_{2B}	1.03
Limiting speed for oil lubrication	133000 mm/min
Fatigue load limit - P_u	0.054 kN
Calculation factor - f_1	0.99
Calculation factor - Y_2	1.41
Calculation factor - X_2	0.67
Calculation factor - Y_1	0.92
Calculation factor - Y_0	0.76
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.06
Calculation factor - f_{2B}	1.03
Limiting speed for grease lubrication	88000 r/min
Basic static load rating C_0	1.27 kN
Static axial stiffness, preload class B	56 N/ μ m
Static axial stiffness, preload class A	37 N/ μ m
Attainable speed for grease lubrication	88000 r/min
Static axial stiffness, preload class C	73 N/ μ m
Basic static load rating - C_0	1.3 kN
Attainable speed for oil-air lubrication	133000 r/min
Reference grease quantity G_{ref}	0.31 cm ³
Calculation factor (single, tandem) Y_2	0.87
Calculation factor	0.38

(single, tandem) Y_0	
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