



Bearing No. 7007 ACD/P4AH

K	0.5 mm
a	18.5 mm
d	35 mm
D	62 mm
B	14 mm
Ball - z	16
Size (mm)	62x35x14
Width (mm)	14
Mass bearing	0.15 kg
d_n	45.3 mm
D_1	53.3 mm
d_1	43.7 mm
C_1	8.4 mm
D_1	53.3 mm
d_2	43.7 mm
C_1	8.4 mm
d_1	43.7 mm
d_n	45.3 mm
d_2	43.7 mm
Bearing number	7007 ACD/P4AH
Preload class B	110 N/micron
Preload class A	86 N/micron
Preload class D	190 N/micron
G_{ref}	1.98 cm ³
Preload class C	144 N/micron
Number of balls z	16
Bore Diameter (mm)	62
r_b max.	0.3 mm
r_a max.	1 mm

D_b max.	60 mm
D_a max.	57.4 mm
d_a min.	39.6 mm
d_b min.	39.6 mm
Outer Diameter (mm)	35
r_a - max.	1 mm
D_a - max.	57.4 mm
d_b - min.	39.6 mm
d_a - min.	39.6 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
Ball - D_w	7.938 mm
r_b - max.	0.3 mm
D_b - max.	60 mm
Calculation factor f	1.06
Calculation factor e	0.68
Calculation factor - f	1.06
$r_{1,2}$ - min.	1 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - e	0.68
Ball diameter D_w	7.938 mm
Basic dynamic load rating C	14.8 kN
Preload class A G_A	90 N
Preload class B G_B	180 N
Preload class C G_C	360 N
Basic dynamic load rating - C	14.8 kN
Preload class D G_D	720 N
Preload class B - G_B	180 N
Preload class A - G_A	90 N
Preload class D - G_D	720 N

Preload class C - G_C	360 N
Fatigue load limit P_u	0.38 kN
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
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Limiting speed for oil lubrication	32000 mm/min
Fatigue load limit - P_u	0.38 kN
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	20000 r/min
Basic static load rating C_0	9 kN
Static axial stiffness, preload class A	86 N/ μ m
Static axial stiffness, preload class D	190 N/ μ m
Static axial stiffness, preload class C	144 N/ μ m
Static axial stiffness,	110 N/ μ m

preload class B	
Attainable speed for grease lubrication	20000 r/min
Basic static load rating - C_0	9 kN
Attainable speed for oil-air lubrication	32000 r/min
Reference grease quantity G_{ref}	1.98 cm ³
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