



Bearing No. 7006 ACE/HCP4A

D	55 mm
d	30 mm
B	13 mm
a	16.4 mm
Ball - z	17
Size (mm)	55x30x13
Width (mm)	13
Mass bearing	0.1 kg
d_n	39.9 mm
d_n	39.9 mm
D_1	45.81 mm
d_1	38.2 mm
d_2	36.4 mm
D_1	45.81 mm
d_2	36.4 mm
d_1	38.2 mm
Bearing number	7006 ACE/HCP4A
Preload class A	79 N/micron
G_{ref}	1.7 cm ³
Preload class C	153 N/micron
Preload class B	117 N/micron
Number of balls z	17
Bore Diameter (mm)	55
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	50.8 mm
D_a max.	50.4 mm
d_a min.	34.6 mm
d_b min.	34.6 mm

Outer Diameter (mm)	30
D_b - max.	50.8 mm
d_a - min.	34.6 mm
Calculation factor e	0.68
Calculation factor f	1.05
r_b - max.	0.6 mm
D_a - max.	50.4 mm
r_a - max.	1 mm
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1 mm
Ball - D_w	6.35 mm
d_b - min.	34.6 mm
$r_{1,2}$ - min.	1 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - e	0.68
Calculation factor - f	1.05
Basic dynamic load rating C	8.84 kN
Ball diameter D_w	6.35 mm
Preload class B G_B	240 N
Preload class C G_C	480 N
Basic dynamic load rating - C	8.8 kN
Preload class A G_A	80 N
Preload class B - G_B	240 N
Preload class C - G_C	480 N
Preload class A - G_A	80 N
Fatigue load limit P_u	0.212 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	65000 mm/min
Fatigue load limit - P_u	0.212 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	42000 r/min
Basic static load rating C_0	5 kN
Static axial stiffness, preload class B	117 N/ μ m
Static axial stiffness, preload class A	79 N/ μ m
Attainable speed for grease lubrication	42000 r/min
Static axial stiffness, preload class C	153 N/ μ m
Basic static load rating - C_0	5 kN
Attainable speed for oil-air lubrication	65000 r/min
Reference grease quantity G_{ref}	1.7 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