



**Bearing No. 7006 ACE/P4A**

D	55 mm
d	30 mm
B	13 mm
a	16.4 mm
Ball - z	17
Size (mm)	55x30x13
Width (mm)	13
Mass bearing	0.11 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/P4A
Preload class A	71 N/micron
$G_{ref}$	1.7 cm <sup>3</sup>
Preload class C	138 N/micron
Preload class B	105 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

Calculation factor $f_{2B}$	1.03
Limiting speed for oil lubrication	54000 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
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.06
Calculation factor - $f_{2B}$	1.03
Limiting speed for grease lubrication	35000 r/min
Basic static load rating $C_0$	5 kN
Static axial stiffness, preload class B	105 N/ $\mu$ m
Static axial stiffness, preload class A	71 N/ $\mu$ m
Attainable speed for grease lubrication	35000 r/min
Static axial stiffness, preload class C	138 N/ $\mu$ m
Basic static load rating - $C_0$	5 kN
Attainable speed for oil-air lubrication	54000 r/min
Reference grease quantity $G_{ref}$	1.7 cm <sup>3</sup>
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