



Bearing No. 7000 ACE/P4AH

K	0.5 mm
a	8.3 mm
d	10 mm
D	26 mm
B	8 mm
Ball - z	11
Size (mm)	26x10x8
Width (mm)	8
Mass bearing	0.019 kg
$d_n$	16.5 mm
$D_1$	20.45 mm
$d_1$	15.6 mm
$C_1$	4.75 mm
$D_1$	20.45 mm
$d_2$	14.5 mm
$C_1$	4.75 mm
$d_1$	15.6 mm
$d_n$	16.5 mm
$d_2$	14.5 mm
Bearing number	7000 ACE/P4AH
Preload class A	31 N/micron
Preload class B	47 N/micron
Preload class C	61 N/micron
$G_{ref}$	0.28 cm <sup>3</sup>
Number of balls z	11
Bore Diameter (mm)	26
$r_b$ max.	0.3 mm
$r_a$ max.	0.3 mm
$D_b$ max.	23.6 mm

$D_a$ max.	24 mm
$d_a$ min.	12 mm
$d_b$ min.	12 mm
Outer Diameter (mm)	10
$r_a$ - max.	0.3 mm
$r_{3,4}$ min.	0.3 mm
$D_a$ - max.	24 mm
$d_b$ - min.	12 mm
$r_{1,2}$ min.	0.3 mm
Ball - $D_w$	3.969 mm
$r_b$ - max.	0.3 mm
$D_b$ - max.	23.6 mm
Calculation factor f	1.03
Calculation factor e	0.68
$d_a$ - min.	12 mm
Calculation factor - f	1.03
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.3 mm
Calculation factor - e	0.68
Ball diameter $D_w$	3.969 mm
Basic dynamic load rating C	2.86 kN
Preload class A $G_A$	26 N
Preload class B $G_B$	80 N
Preload class C $G_C$	160 N
Basic dynamic load rating - C	2.9 kN
Preload class B - $G_B$	80 N
Preload class C - $G_C$	160 N
Preload class A - $G_A$	26 N
Fatigue load limit $P_u$	0.048 kN
Calculation factor $f_1$	0.99

Calculation factor $f_{2C}$	1.06
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{HC}$	1
Calculation factor $f_{2A}$	1
Calculation factor - $f_1$	0.99
Limiting speed for oil lubrication	127000 mm/min
Fatigue load limit - $P_u$	0.048 kN
Calculation factor - $Y_0$	0.76
Calculation factor - $Y_1$	0.92
Calculation factor - $X_2$	0.67
Calculation factor - $Y_2$	1.41
Calculation factor - $f_{HC}$	1
Calculation factor - $f_{2C}$	1.06
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2A}$	1
Limiting speed for grease lubrication	83000 r/min
Basic static load rating $C_0$	1.14 kN
Static axial stiffness, preload class C	61 N/ $\mu$ m
Attainable speed for grease lubrication	83000 r/min
Static axial stiffness, preload class B	47 N/ $\mu$ m
Static axial stiffness, preload class A	31 N/ $\mu$ m
Attainable speed for oil-air lubrication	127000 r/min
Basic static load rating - $C_0$	1.1 kN
Reference grease	0.28 cm <sup>3</sup>

quantity $G_{ref}$	
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