



**Bearing No. 7001 CE/P4A**

D	28 mm
d	12 mm
B	8 mm
a	6.7 mm
Ball - z	12
Size (mm)	28x12x8
Width (mm)	8
Mass bearing	0.021 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 CE/P4A
Preload class A	13 N/micron
Preload class B	21 N/micron
Preload class C	30 N/micron
$G_{ref}$	0.31 cm <sup>3</sup>
Number of balls z	12
$D_a$ max.	26 mm
$d_a$ min.	14 mm
$d_b$ min.	14 mm
$D_b$ max.	26.6 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
Bore Diameter (mm)	28

Outer Diameter (mm)	12
$d_a$ - min.	14 mm
$r_a$ - max.	0.3 mm
$r_{1,2}$ min.	0.3 mm
Calculation factor f	1.02
$D_b$ - max.	26.6 mm
$r_{3,4}$ min.	0.15 mm
$r_b$ - max.	0.15 mm
$D_a$ - max.	26 mm
Ball - $D_w$	3.969 mm
$d_b$ - min.	14 mm
Calculation factor - f	1.02
$r_{3,4}$ - min.	0.15 mm
$r_{1,2}$ - min.	0.3 mm
Basic dynamic load rating C	3.19 kN
Ball diameter $D_w$	3.969 mm
Preload class B $G_B$	53 N
Preload class A $G_A$	17 N
Basic dynamic load rating - C	3.2 kN
Preload class C $G_C$	110 N
Preload class A - $G_A$	17 N
Preload class C - $G_C$	110 N
Preload class B - $G_B$	53 N
Calculation factor $f_1$	1
Fatigue load limit $P_u$	0.057 kN
Calculation factor $f_0$	7.3
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2A}$	1
Calculation factor $f_{HC}$	1

Calculation factor - $f$	1
Fatigue load limit - $P_u$	0.057 kN
Calculation factor - $f_0$	7.3
Limiting speed for oil lubrication	127000 mm/min
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1
Limiting speed for grease lubrication	80000 r/min
Basic static load rating $C_0$	1.34 kN
Static axial stiffness, preload class A	13 N/ $\mu$ m
Static axial stiffness, preload class B	21 N/ $\mu$ m
Static axial stiffness, preload class C	30 N/ $\mu$ m
Attainable speed for grease lubrication	80000 r/min
Attainable speed for oil-air lubrication	127000 r/min
Basic static load rating - $C_0$	1.3 kN
Reference grease quantity $G_{ref}$	0.31 cm <sup>3</sup>