



**Bearing No. 7000 CE/HCP4A**

D	26 mm
d	10 mm
B	8 mm
a	6.5 mm
Ball - z	11
Size (mm)	26x10x8
Width (mm)	8
Mass bearing	0.017 kg
d <sub>n</sub>	16.5 mm
d <sub>n</sub>	16.5 mm
D <sub>1</sub>	20.45 mm
d <sub>1</sub>	15.6 mm
d <sub>2</sub>	14.5 mm
D <sub>1</sub>	20.45 mm
d <sub>2</sub>	14.5 mm
d <sub>1</sub>	15.6 mm
Bearing number	7000 CE/HCP4A
Preload class A	13 N/micron
Preload class B	21 N/micron
Preload class C	29 N/micron
G <sub>ref</sub>	0.28 cm <sup>3</sup>
Number of balls z	11
D <sub>a</sub> max.	24 mm
d <sub>a</sub> min.	12 mm
d <sub>b</sub> min.	12 mm
D <sub>b</sub> max.	23.6 mm
r <sub>a</sub> max.	0.3 mm
r <sub>b</sub> max.	0.3 mm
Bore Diameter (mm)	26

Outer Diameter (mm)	10
$d_a$ - min.	12 mm
$r_a$ - max.	0.3 mm
$r_{1,2}$ min.	0.3 mm
Calculation factor f	1.03
$D_b$ - max.	23.6 mm
$r_{3,4}$ min.	0.3 mm
$r_b$ - max.	0.3 mm
$D_a$ - max.	24 mm
Ball - $D_w$	3.969 mm
$d_b$ - min.	12 mm
Calculation factor - f	1.03
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.3 mm
Basic dynamic load rating C	3.02 kN
Ball diameter $D_w$	3.969 mm
Preload class B $G_B$	48 N
Preload class A $G_A$	15 N
Basic dynamic load rating - C	3 kN
Preload class C $G_C$	95 N
Preload class A - $G_A$	15 N
Preload class C - $G_C$	95 N
Preload class B - $G_B$	48 N
Calculation factor $f_1$	1
Fatigue load limit $P_u$	0.05 kN
Calculation factor $f_0$	7.1
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2A}$	1
Calculation factor $f_{HC}$	1.01

Calculation factor - $f$	1
Fatigue load limit - $P_u$	0.05 kN
Calculation factor - $f_0$	7.1
Limiting speed for oil lubrication	165000 mm/min
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1.01
Limiting speed for grease lubrication	109000 r/min
Basic static load rating $C_0$	1.18 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	29 N/ $\mu$ m
Attainable speed for grease lubrication	109000 r/min
Attainable speed for oil-air lubrication	165000 r/min
Basic static load rating - $C_0$	1.2 kN
Reference grease quantity $G_{ref}$	0.28 cm <sup>3</sup>