



**Bearing No. 7022 CB/HCP4A**

D	170 mm
d	110 mm
B	28 mm
a	33 mm
Ball - z	31
Size (mm)	170x110x28
Width (mm)	28
Mass bearing	2.08 kg
$d_n$	134.6 mm
$d_n$	134.6 mm
$D_2$	151.9 mm
$d_1$	133.2 mm
$d_2$	130.5 mm
$D_2$	151.9 mm
$d_2$	130.5 mm
$d_1$	133.2 mm
Bearing number	7022 CB/HCP4A
Preload class A	79 N/micron
Preload class B	103 N/micron
Preload class C	163 N/micron
$G_{ref}$	22.25 cm <sup>3</sup>
Number of balls z	31
$D_a$ max.	161 mm
$d_a$ min.	119 mm
$d_b$ min.	119 mm
$D_b$ max.	165.4 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
Bore Diameter (mm)	170

Outer Diameter (mm)	110
$d_a$ - min.	119 mm
$r_a$ - max.	2 mm
$r_{1,2}$ min.	2 mm
Calculation factor f	1.07
$D_b$ - max.	165.4 mm
$r_{3,4}$ min.	1 mm
$r_b$ - max.	1 mm
$D_a$ - max.	161 mm
Ball - $D_w$	11.112 mm
$d_b$ - min.	119 mm
Calculation factor - f	1.07
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Basic dynamic load rating C	49.4 kN
Ball diameter $D_w$	11.112 mm
Preload class B $G_B$	250 N
Preload class A $G_A$	125 N
Basic dynamic load rating - C	37.1 kN
Preload class C $G_C$	750 N
Preload class A - $G_A$	125 N
Preload class C - $G_C$	750 N
Preload class B - $G_B$	250 N
Calculation factor $f_1$	1
Fatigue load limit $P_u$	1.29 kN
Calculation factor $f_0$	9.7
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2A}$	1
Calculation factor $f_{HC}$	1.01

Calculation factor - $f$	1
Fatigue load limit - $P_u$	1.3 kN
Calculation factor - $f_0$	9.7
Limiting speed for oil lubrication	19000 mm/min
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1.01
Limiting speed for grease lubrication	12000 r/min
Basic static load rating $C_0$	60 kN
Static axial stiffness, preload class A	79 N/ $\mu$ m
Static axial stiffness, preload class B	103 N/ $\mu$ m
Static axial stiffness, preload class C	163 N/ $\mu$ m
Attainable speed for grease lubrication	12000 r/min
Attainable speed for oil-air lubrication	19000 r/min
Basic static load rating - $C_0$	36 kN
Reference grease quantity $G_{ref}$	22.25 cm <sup>3</sup>