



Bearing No. 7022 CB/HCP4AL

b	2.2 mm
d	110 mm
a	33 mm
B	28 mm
D	170 mm
Ball - z	31
Size (mm)	170x110x28
Width (mm)	28
Mass bearing	2.08 kg
d ₂	130.5 mm
D ₂	151.9 mm
d _n	134.6 mm
C ₁	15.1 mm
C ₂	6.2 mm
C ₃	4.2 mm
C ₂	6.2 mm
C ₁	15.1 mm
d _n	134.6 mm
D ₂	151.9 mm
d ₂	130.5 mm
d ₁	133.2 mm
d ₁	133.2 mm
C ₃	4.2 mm
Bearing number	7022 CB/HCP4AL
Preload class B	103 N/micron
G _{ref}	22.25 cm3
Preload class C	163 N/micron
Preload class A	79 N/micron
Number of balls z	31

d_a min.	119 mm
d_b min.	119 mm
D_a max.	161 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
$r_{1,2}$ min.	2 mm
d_a - min.	119 mm
d_b - min.	119 mm
D_a - max.	161 mm
Calculation factor f	1.07
r_b - max.	1 mm
$r_{3,4}$ min.	1 mm
r_a - max.	2 mm
D_b - max.	165.4 mm
Ball - D_w	11.112 mm
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Calculation factor - f	1.07
Ball diameter D_w	11.112 mm
Basic dynamic load rating C	49.4 kN
Preload class B G_B	250 N
Preload class C G_C	750 N
Preload class A G_A	125 N
Basic dynamic load rating - C	37.1 kN
Preload class A - G_A	125 N
Preload class B - G_B	250 N
Preload class C - G_C	750 N

Calculation factor f_1	1
Calculation factor f_0	9.7
Fatigue load limit P_u	1.29 kN
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01
Calculation factor - f_0	9.7
Limiting speed for oil lubrication	19000 mm/min
Fatigue load limit - P_u	1.3 kN
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	12000 r/min
Basic static load rating C_0	60 kN
Static axial stiffness, preload class A	79 N/ μ m
Static axial stiffness, preload class B	103 N/ μ m
Static axial stiffness, preload class C	163 N/ μ m
Attainable speed for grease lubrication	12000 r/min
Basic static load rating - C_0	36 kN
Attainable speed for oil-air lubrication	19000 r/min
Reference grease quantity G_{ref}	22.25 cm ³

