



Bearing No. 7022 CE/HCP4AH1

K	0.5 mm
a	32.9 mm
d	110 mm
D	170 mm
B	28 mm
Ball - z	30
Size (mm)	170x110x28
Width (mm)	28
Mass bearing	1.93 kg
$d_n$	135.4 mm
$D_1$	147.61 mm
$d_1$	132.38 mm
$C_1$	9.84 mm
$D_1$	147.61 mm
$d_2$	129.2 mm
$C_1$	9.84 mm
$d_1$	132.38 mm
$d_n$	135.4 mm
$d_2$	129.2 mm
Bearing number	7022 CE/HCP4AH1
Preload class B	165 N/micron
Preload class C	226 N/micron
$G_{ref}$	23 cm3
Preload class A	104 N/micron
Number of balls z	30
$D_a$ max.	161.2 mm
$d_a$ min.	118.8 mm
$d_b$ min.	118.8 mm
$D_b$ max.	164.4 mm

$r_a$ max.	2 mm
$r_b$ max.	1 mm
Bore Diameter (mm)	170
Outer Diameter (mm)	110
$r_b$ - max.	1 mm
$r_{1,2}$ min.	2 mm
$d_a$ - min.	118.8 mm
Calculation factor f	1.1
$r_a$ - max.	2 mm
$r_{3,4}$ min.	1 mm
$d_b$ - min.	118.8 mm
Ball - $D_w$	12.7 mm
$D_a$ - max.	161.2 mm
$D_b$ - max.	164.4 mm
Calculation factor - f	1.1
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Basic dynamic load rating C	47.5 kN
Ball diameter $D_w$	12.7 mm
Preload class C $G_C$	1520 N
Preload class B $G_B$	760 N
Preload class A $G_A$	250 N
Basic dynamic load rating - C	47.5 kN
Preload class C - $G_C$	1520 N
Preload class A - $G_A$	250 N
Preload class B - $G_B$	760 N
Calculation factor $f_1$	1
Calculation factor $f_0$	9.6
Fatigue load limit $P_u$	1.6 kN
Calculation factor - f	1

Calculation factor $f_{HC}$	1.01
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2A}$	1
Fatigue load limit - $P_u$	1.6 kN
Limiting speed for oil lubrication	20000 mm/min
Calculation factor - $f_0$	9.6
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{HC}$	1.01
Calculation factor - $f_{2A}$	1
Limiting speed for grease lubrication	12700 r/min
Basic static load rating $C_0$	45 kN
Static axial stiffness, preload class C	226 N/ $\mu$ m
Static axial stiffness, preload class A	104 N/ $\mu$ m
Attainable speed for grease lubrication	12700 r/min
Static axial stiffness, preload class B	165 N/ $\mu$ m
Basic static load rating - $C_0$	45 kN
Attainable speed for oil-air lubrication	20000 r/min
Reference grease quantity $G_{ref}$	23 cm <sup>3</sup>