



Bearing No. 7001 CE/HCP4AH

K	0.5 mm
a	6.7 mm
d	12 mm
D	28 mm
B	8 mm
Ball - z	12
Size (mm)	28x12x8
Width (mm)	8
Mass bearing	0.019 kg
d_n	18.5 mm
D_1	22.45 mm
d_1	17.5 mm
C_1	4.9 mm
D_1	22.45 mm
d_2	16.5 mm
C_1	4.9 mm
d_1	17.5 mm
d_n	18.5 mm
d_2	16.5 mm
Bearing number	7001 CE/HCP4AH
Preload class B	24 N/micron
Preload class C	33 N/micron
G_{ref}	0.31 cm3
Preload class A	15 N/micron
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
r_b - max.	0.15 mm
$r_{1,2}$ min.	0.3 mm
d_a - min.	14 mm
Calculation factor f	1.02
r_a - max.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_b - min.	14 mm
Ball - D_w	3.969 mm
D_a - max.	26 mm
D_b - max.	26.6 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 C G_C	110 N
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 B - G_B	53 N
Calculation factor f_1	1
Calculation factor f_0	7.3
Fatigue load limit P_u	0.057 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	0.057 kN
Limiting speed for oil lubrication	150000 mm/min
Calculation factor - f_0	7.3
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	98000 r/min
Basic static load rating C_0	1.34 kN
Static axial stiffness, preload class C	33 N/ μ m
Static axial stiffness, preload class A	15 N/ μ m
Attainable speed for grease lubrication	98000 r/min
Static axial stiffness, preload class B	24 N/ μ m
Basic static load rating - C_0	1.3 kN
Attainable speed for oil-air lubrication	150000 r/min
Reference grease quantity G_{ref}	0.31 cm ³