



Bearing No. 7004 CE/P4AH1

K	0.5 mm
a	10.2 mm
d	20 mm
D	42 mm
B	12 mm
Ball - z	12
Size (mm)	42x20x12
Width (mm)	12
Mass bearing	0.064 kg
d_n	28.1 mm
D_1	34.21 mm
d_1	26.6 mm
C_1	3.67 mm
D_1	34.21 mm
d_2	24.8 mm
C_1	3.67 mm
d_1	26.6 mm
d_n	28.1 mm
d_2	24.8 mm
Bearing number	7004 CE/P4AH1
Preload class B	32 N/micron
Preload class C	44 N/micron
G_{ref}	1.1 cm3
Preload class A	21 N/micron
Number of balls z	12
D_a max.	40 mm
d_a min.	22 mm
d_b min.	22 mm
D_b max.	39.6 mm

r_a max.	0.6 mm
r_b max.	0.3 mm
Bore Diameter (mm)	42
Outer Diameter (mm)	20
r_b - max.	0.3 mm
$r_{1,2}$ min.	0.6 mm
d_a - min.	22 mm
Calculation factor f	1.04
r_a - max.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_b - min.	22 mm
Ball - D_w	6.35 mm
D_a - max.	40 mm
D_b - max.	39.6 mm
Calculation factor - f	1.04
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.6 mm
Basic dynamic load rating C	7.41 kN
Ball diameter D_w	6.35 mm
Preload class C G_C	235 N
Preload class B G_B	120 N
Preload class A G_A	40 N
Basic dynamic load rating - C	7.4 kN
Preload class C - G_C	235 N
Preload class A - G_A	40 N
Preload class B - G_B	120 N
Calculation factor f_1	1
Calculation factor f_0	7.2
Fatigue load limit P_u	0.143 kN
Calculation factor - f	1

Calculation factor f_{HC}	1
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Fatigue load limit - P_u	0.143 kN
Limiting speed for oil lubrication	83000 mm/min
Calculation factor - f_0	7.2
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.03
Calculation factor - f_{HC}	1
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	54000 r/min
Basic static load rating C_0	3.35 kN
Static axial stiffness, preload class C	44 N/ μ m
Static axial stiffness, preload class A	21 N/ μ m
Attainable speed for grease lubrication	54000 r/min
Static axial stiffness, preload class B	32 N/ μ m
Basic static load rating - C_0	3.4 kN
Attainable speed for oil-air lubrication	83000 r/min
Reference grease quantity G_{ref}	1.1 cm ³