



Bearing No. 7004 CD/HCP4A

D	42 mm
d	20 mm
B	12 mm
a	10.2 mm
Ball - z	12
Size (mm)	42x20x12
Width (mm)	12
Mass bearing	0.06 kg
d _n	28.4 mm
d _n	28.4 mm
D ₁	34.8 mm
d ₁	27.1 mm
d ₂	27.1 mm
D ₁	34.8 mm
d ₂	27.1 mm
d ₁	27.1 mm
Bearing number	7004 CD/HCP4A
Preload class A	25 N/micron
G _{ref}	0.9 cm ³
Preload class C	46 N/micron
Preload class D	65 N/micron
Preload class B	34 N/micron
Number of balls z	12
r _b max.	0.3 mm
r _a max.	0.6 mm
D _b max.	40 mm
D _a max.	38.8 mm
d _a min.	23.2 mm
Bore Diameter (mm)	42

d_b min.	23.2 mm
Outer Diameter (mm)	20
d_a - min.	23.2 mm
r_a - max.	0.6 mm
$r_{1,2}$ min.	0.6 mm
Calculation factor f	1.03
D_b - max.	40 mm
$r_{3,4}$ min.	0.3 mm
D_a - max.	38.8 mm
Ball - D_w	6.35 mm
r_b - max.	0.3 mm
d_b - min.	23.2 mm
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.6 mm
Calculation factor - f	1.03
Basic dynamic load rating C	8.71 kN
Ball diameter D_w	6.35 mm
Preload class C G_C	140 N
Preload class D G_D	280 N
Preload class B G_B	70 N
Preload class A G_A	35 N
Basic dynamic load rating - C	8.7 kN
Preload class D - G_D	280 N
Preload class C - G_C	140 N
Preload class B - G_B	70 N
Preload class A - G_A	35 N
Calculation factor f_1	1
Calculation factor f_0	9.2
Fatigue load limit P_u	0.18 kN
Calculation factor f_{HC}	1.02

Calculation factor f_{2D}	1.09
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor - f	1
Fatigue load limit - P_u	0.18 kN
Limiting speed for oil lubrication	80000 mm/min
Calculation factor - f_0	9.2
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2D}	1.09
Limiting speed for grease lubrication	50000 r/min
Basic static load rating C_0	4.3 kN
Static axial stiffness, preload class D	65 N/ μ m
Static axial stiffness, preload class B	34 N/ μ m
Static axial stiffness, preload class A	25 N/ μ m
Attainable speed for grease lubrication	50000 r/min
Static axial stiffness, preload class C	46 N/ μ m
Basic static load rating - C_0	4.3 kN
Attainable speed for oil-air lubrication	80000 r/min
Reference grease quantity G_{ref}	0.9 cm ³

