



Bearing No. S7004 CE/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	0.059 kg
D_2	36.5 mm
d_2	24.8 mm
d_1	26.6 mm
d_2	24.8 mm
D_2	36.5 mm
d_1	26.6 mm
Bearing number	S7004 CE/HCP4A
Preload class B	36 N/micron
Preload class A	23 N/micron
Preload class C	49 N/micron
Number of balls z	12
Bore Diameter (mm)	42
d_a min.	22 mm
d_a max.	26.2 mm
d_b min.	22 mm
d_b max.	24.4 mm
D_a max.	40 mm
D_b max.	39.6 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
Outer Diameter (mm)	20
$r_{3,4}$ min.	0.3 mm

d_b - min.	22 mm
Calculation factor f	1.04
d_a - max.	26.2 mm
$r_{1,2}$ min.	0.6 mm
D_a - max.	40 mm
d_b - max.	24.4 mm
D_b - max.	39.6 mm
r_a - max.	0.6 mm
d_a - min.	22 mm
Ball - D_w	6.35 mm
r_b - max.	0.3 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - f	1.04
$r_{1,2}$ - min.	0.6 mm
Basic dynamic load rating C	7.41 kN
Ball diameter D_w	6.35 mm
Basic dynamic load rating - C	7.4 kN
Preload class A G_A	40 N
Preload class B G_B	120 N
Preload class C G_C	235 N
Preload class A - G_A	40 N
Preload class B - G_B	120 N
Preload class C - G_C	235 N
Fatigue load limit P_u	0.143 kN
Calculation factor f_1	1
Calculation factor f_0	7.2
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1

Calculation factor - f	1
Calculation factor - f_0	7.2
Fatigue load limit - P_u	0.143 kN
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.03
Calculation factor - f_{HC}	1.01
Limiting speed for grease lubrication	65000 r/min
Basic static load rating C_0	3.35 kN
Static axial stiffness, preload class B	36 N/ μ m
Static axial stiffness, preload class C	49 N/ μ m
Static axial stiffness, preload class A	23 N/ μ m
Attainable speed for grease lubrication	65000 r/min
Basic static load rating - C_0	3.4 kN