



Bearing No. S7004 CD/P4A

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| D | 42 mm |
| d | 20 mm |
| B | 12 mm |
| a | 10.2 mm |
| Ball - z | 12 |
| Size (mm) | 42x20x12 |
| Width (mm) | 12 |
| Mass bearing | 0.068 kg |
| D ₂ | 37 mm |
| d ₂ | 27.1 mm |
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| D ₂ | 37 mm |
| d ₁ | 27.1 mm |
| Bearing number | S7004 CD/P4A |
| Preload class A | 23 N/micron |
| Preload class B | 30 N/micron |
| Preload class D | 59 N/micron |
| Preload class C | 42 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 _b max. | 26.6 mm |
| d _a max. | 26.6 mm |
| d _a min. | 23.2 mm |
| Bore Diameter (mm) | 42 |
| d _b min. | 23.2 mm |
| Outer Diameter (mm) | 20 |

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| $r_{3,4}$ min. | 0.3 mm |
| d_b - min. | 23.2 mm |
| Calculation factor f | 1.03 |
| d_a - max. | 26.6 mm |
| $r_{1,2}$ min. | 0.6 mm |
| d_a - min. | 23.2 mm |
| d_b - max. | 26.6 mm |
| D_a - max. | 38.8 mm |
| D_b - max. | 40 mm |
| r_a - max. | 0.6 mm |
| r_b - max. | 0.3 mm |
| Ball - D_w | 6.35 mm |
| $r_{3,4}$ - min. | 0.3 mm |
| Calculation factor - f | 1.03 |
| $r_{1,2}$ - min. | 0.6 mm |
| Ball diameter D_w | 6.35 mm |
| Basic dynamic load rating C | 8.71 kN |
| Preload class A G_A | 35 N |
| Basic dynamic load rating - C | 8.7 kN |
| Preload class C G_C | 140 N |
| Preload class D G_D | 280 N |
| Preload class B G_B | 70 N |
| 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 |
| Calculation factor f_1 | 1 |
| Fatigue load limit P_u | 0.18 kN |
| Calculation factor f_0 | 9.2 |
| Calculation factor f_{2D} | 1.09 |

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| Calculation factor f_{HC} | 1 |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{2B} | 1.02 |
| Calculation factor f_{2A} | 1 |
| Calculation factor - f | 1 |
| Calculation factor - f_0 | 9.2 |
| Fatigue load limit - P_u | 0.18 kN |
| Calculation factor - f_{2C} | 1.05 |
| Calculation factor - f_{2D} | 1.09 |
| Calculation factor - f_{2B} | 1.02 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{HC} | 1 |
| Limiting speed for grease lubrication | 43000 r/min |
| Basic static load rating C_0 | 4.3 kN |
| Static axial stiffness, preload class A | 23 N/ μ m |
| Static axial stiffness, preload class B | 30 N/ μ m |
| Static axial stiffness, preload class C | 42 N/ μ m |
| Static axial stiffness, preload class D | 59 N/ μ m |
| Attainable speed for grease lubrication | 43000 r/min |
| Basic static load rating - C_0 | 4.3 kN |