



Bearing No. 7004 CE/P4AL

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|-------------------|--------------|
| b | 1.9 mm |
| d | 20 mm |
| a | 10.2 mm |
| B | 12 mm |
| D | 42 mm |
| Ball - z | 12 |
| Size (mm) | 42x20x12 |
| Width (mm) | 12 |
| Mass bearing | 0.064 kg |
| d ₂ | 24.8 mm |
| D ₁ | 34.21 mm |
| d _n | 28.1 mm |
| C ₁ | 5.9 mm |
| C ₂ | 1.8 mm |
| C ₃ | 1.9 mm |
| C ₂ | 1.8 mm |
| C ₁ | 5.9 mm |
| d _n | 28.1 mm |
| D ₁ | 34.21 mm |
| d ₂ | 24.8 mm |
| d ₁ | 26.6 mm |
| d ₁ | 26.6 mm |
| C ₃ | 1.9 mm |
| Bearing number | 7004 CE/P4AL |
| Preload class B | 32 N/micron |
| G _{ref} | 1.1 cm3 |
| Preload class C | 44 N/micron |
| Preload class A | 21 N/micron |
| Number of balls z | 12 |

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|-------------------------------|---------|
| d_a min. | 22 mm |
| d_b min. | 22 mm |
| D_a max. | 40 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 |
| $r_{1,2}$ min. | 0.6 mm |
| d_a - min. | 22 mm |
| d_b - min. | 22 mm |
| D_a - max. | 40 mm |
| Calculation factor f | 1.04 |
| r_b - max. | 0.3 mm |
| $r_{3,4}$ min. | 0.3 mm |
| r_a - max. | 0.6 mm |
| D_b - max. | 39.6 mm |
| Ball - D_w | 6.35 mm |
| $r_{3,4}$ - min. | 0.3 mm |
| $r_{1,2}$ - min. | 0.6 mm |
| Calculation factor - f | 1.04 |
| Ball diameter D_w | 6.35 mm |
| Basic dynamic load rating C | 7.41 kN |
| Preload class B G_B | 120 N |
| Preload class C G_C | 235 N |
| Preload class A G_A | 40 N |
| 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 |
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| Calculation factor f_1 | 1 |
| Calculation factor f_0 | 7.2 |
| Fatigue load limit P_u | 0.143 kN |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{2B} | 1.03 |
| Calculation factor - f | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{HC} | 1 |
| Calculation factor - f_0 | 7.2 |
| Limiting speed for oil lubrication | 83000 mm/min |
| Fatigue load limit - P_u | 0.143 kN |
| Calculation factor - f_{HC} | 1 |
| Calculation factor - f_{2B} | 1.03 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2C} | 1.05 |
| Limiting speed for grease lubrication | 54000 r/min |
| Basic static load rating C_0 | 3.35 kN |
| Static axial stiffness, preload class A | 21 N/ μ m |
| Static axial stiffness, preload class B | 32 N/ μ m |
| Static axial stiffness, preload class C | 44 N/ μ m |
| Attainable speed for grease lubrication | 54000 r/min |
| 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 |

