



Bearing No. 7007 CB/P4A

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| a | 13.6 mm |
| d | 35 mm |
| D | 62 mm |
| B | 14 mm |
| C | 14 mm |
| dh | 46,1 mm |
| D2 | 53,4 mm |
| d1 | 45,5 mm |
| d2 | 44,3 mm |
| D1 | 53,4 mm |
| Db max | 58,8 mm |
| db min | 39,6 mm |
| Weight | 0,17 Kg |
| rb max. | 0,6 mm |
| ra max. | 1 mm |
| Da max. | 57,4 mm |
| r3 min. | 0,6 mm |
| da min. | 39,6 mm |
| r4 min. | 0,6 mm |
| r2 min. | 1 mm |
| r1 min. | 1 mm |
| Size (mm) | 35x62x14 |
| Width (mm) | 14 |
| Mass bearing | 0.17 kg |
| d ₁ | 45.45 mm |
| d _n | 46.1 mm |
| d ₂ | 44.34 mm |
| D ₂ | 53.38 mm |
| Bearing number | 7007 CB/P4A |
| Number of balls z | 23 |

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|--------------------------------|--------------|
| Bore Diameter (mm) | 35 |
| d_a min. | 39.6 mm |
| d_b min. | 39.6 mm |
| D_a max. | 57.4 mm |
| D_b max. | 58.8 mm |
| r_a max. | 1 mm |
| r_b max. | 0.6 mm |
| Outer Diameter (mm) | 62 |
| Calculation factor f | 1.04 |
| $r_{1,2}$ min. | 1 mm |
| $r_{3,4}$ min. | 0.6 mm |
| Fatigue load limit (Pu) | 0,204 |
| (Oil) Lubrication Speed | 48 000 r/min |
| (Grease) Lubrication Speed | 32 000 r/min |
| Basic dynamic load rating C | 9.36 kN |
| Ball diameter D_w | 4.762 mm |
| Basic dynamic load rating (C) | 6,89 kN |
| Basic static load rating (C0) | 4,8 kN |
| Preload class A G_A | 23 N |
| Preload class B G_B | 46 N |
| Preload class C G_C | 140 N |
| Fatigue load limit P_u | 0.204 kN |
| Calculation factor f_0 | 9.6 |
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{HC} | 1 |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{2B} | 1.02 |
| Basic static load rating C_0 | 8.3 kN |

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| Static axial stiffness, preload class B | 33 N/ μ m |
| Static axial stiffness, preload class C | 52 N/ μ m |
| Static axial stiffness, preload class A | 25 N/ μ m |
| Attainable speed for grease lubrication | 32000 r/min |
| Attainable speed for oil-air lubrication | 48000 r/min |
| Reference grease quantity G_{ref} | 1.81 cm ³ |