



Bearing No. 7003 CE/HCP4AH

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| K | 0.5 mm |
| a | 8.6 mm |
| d | 17 mm |
| D | 35 mm |
| B | 10 mm |
| Ball - z | 12 |
| Size (mm) | 35x17x10 |
| Width (mm) | 10 |
| Mass bearing | 0.03 kg |
| d_n | 24.1 mm |
| D_1 | 29.3 mm |
| d_1 | 22.7 mm |
| C_1 | 6.05 mm |
| D_1 | 29.3 mm |
| d_2 | 21.1 mm |
| C_1 | 6.05 mm |
| d_1 | 22.7 mm |
| d_n | 24.1 mm |
| d_2 | 21.1 mm |
| Bearing number | 7003 CE/HCP4AH |
| Preload class B | 31 N/micron |
| Preload class C | 43 N/micron |
| G_{ref} | 0.68 cm3 |
| Preload class A | 20 N/micron |
| Number of balls z | 12 |
| D_a max. | 33 mm |
| d_a min. | 19 mm |
| d_b min. | 19 mm |
| D_b max. | 33.6 mm |

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| r_a max. | 0.3 mm |
| r_b max. | 0.15 mm |
| Bore Diameter (mm) | 35 |
| Outer Diameter (mm) | 17 |
| r_b - max. | 0.15 mm |
| $r_{1,2}$ min. | 0.3 mm |
| d_a - min. | 19 mm |
| Calculation factor f | 1.04 |
| r_a - max. | 0.3 mm |
| $r_{3,4}$ min. | 0.15 mm |
| d_b - min. | 19 mm |
| Ball - D_w | 5.556 mm |
| D_a - max. | 33 mm |
| D_b - max. | 33.6 mm |
| Calculation factor - f | 1.04 |
| $r_{3,4}$ - min. | 0.15 mm |
| $r_{1,2}$ - min. | 0.3 mm |
| Basic dynamic load rating C | 5.85 kN |
| Ball diameter D_w | 5.556 mm |
| Preload class C G_C | 185 N |
| Preload class B G_B | 90 N |
| Preload class A G_A | 30 N |
| Basic dynamic load rating - C | 5.8 kN |
| Preload class C - G_C | 185 N |
| Preload class A - G_A | 30 N |
| Preload class B - G_B | 90 N |
| Calculation factor f_1 | 1 |
| Calculation factor f_0 | 7.2 |
| Fatigue load limit P_u | 0.108 kN |
| Calculation factor - f | 1 |

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| Calculation factor f_{HC} | 1.01 |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{2B} | 1.03 |
| Calculation factor f_{2A} | 1 |
| Fatigue load limit - P_u | 0.108 kN |
| Limiting speed for oil lubrication | 115000 mm/min |
| Calculation factor - f_0 | 7.2 |
| Calculation factor - f_{2C} | 1.05 |
| Calculation factor - f_{2B} | 1.03 |
| Calculation factor - f_{HC} | 1.01 |
| Calculation factor - f_{2A} | 1 |
| Limiting speed for grease lubrication | 75000 r/min |
| Basic static load rating C_0 | 2.55 kN |
| Static axial stiffness, preload class C | 43 N/ μ m |
| Static axial stiffness, preload class A | 20 N/ μ m |
| Attainable speed for grease lubrication | 75000 r/min |
| Static axial stiffness, preload class B | 31 N/ μ m |
| Basic static load rating - C_0 | 2.6 kN |
| Attainable speed for oil-air lubrication | 115000 r/min |
| Reference grease quantity G_{ref} | 0.68 cm ³ |