



Bearing No. 7006 ACE/P4AH1

| | |
|--------------------|---------------------|
| K | 0.5 mm |
| a | 16.4 mm |
| d | 30 mm |
| D | 55 mm |
| B | 13 mm |
| Ball - z | 17 |
| Size (mm) | 55x30x13 |
| Width (mm) | 13 |
| Mass bearing | 0.11 kg |
| d_n | 39.9 mm |
| D_1 | 45.81 mm |
| d_1 | 38.2 mm |
| C_1 | 4.23 mm |
| D_1 | 45.81 mm |
| d_2 | 36.4 mm |
| C_1 | 4.23 mm |
| d_1 | 38.2 mm |
| d_n | 39.9 mm |
| d_2 | 36.4 mm |
| Bearing number | 7006 ACE/P4AH1 |
| Preload class A | 71 N/micron |
| Preload class B | 105 N/micron |
| Preload class C | 138 N/micron |
| G_{ref} | 1.7 cm ³ |
| Number of balls z | 17 |
| Bore Diameter (mm) | 55 |
| r_b max. | 0.6 mm |
| r_a max. | 1 mm |
| D_b max. | 50.8 mm |
| | |

| | |
|-------------------------------|----------|
| D_a max. | 50.4 mm |
| d_a min. | 34.6 mm |
| d_b min. | 34.6 mm |
| Outer Diameter (mm) | 30 |
| r_a - max. | 1 mm |
| $r_{3,4}$ min. | 0.6 mm |
| D_a - max. | 50.4 mm |
| d_b - min. | 34.6 mm |
| $r_{1,2}$ min. | 1 mm |
| Ball - D_w | 6.35 mm |
| r_b - max. | 0.6 mm |
| D_b - max. | 50.8 mm |
| Calculation factor f | 1.05 |
| Calculation factor e | 0.68 |
| d_a - min. | 34.6 mm |
| Calculation factor - f | 1.05 |
| $r_{3,4}$ - min. | 0.6 mm |
| $r_{1,2}$ - min. | 1 mm |
| Calculation factor - e | 0.68 |
| Ball diameter D_w | 6.35 mm |
| Basic dynamic load rating C | 8.84 kN |
| Preload class A G_A | 80 N |
| Preload class B G_B | 240 N |
| Preload class C G_C | 480 N |
| Basic dynamic load rating - C | 8.8 kN |
| Preload class B - G_B | 240 N |
| Preload class C - G_C | 480 N |
| Preload class A - G_A | 80 N |
| Fatigue load limit P_u | 0.212 kN |
| Calculation factor f_1 | 0.99 |
| | |

| | |
|--|---------------------|
| Calculation factor f_{2C} | 1.06 |
| Calculation factor f_{2B} | 1.03 |
| Calculation factor f_{HC} | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor - f_1 | 0.99 |
| Limiting speed for oil lubrication | 54000 mm/min |
| Fatigue load limit - P_u | 0.212 kN |
| Calculation factor - Y_0 | 0.76 |
| Calculation factor - Y_1 | 0.92 |
| Calculation factor - X_2 | 0.67 |
| Calculation factor - Y_2 | 1.41 |
| Calculation factor - f_{HC} | 1 |
| Calculation factor - f_{2C} | 1.06 |
| Calculation factor - f_{2B} | 1.03 |
| Calculation factor - f_{2A} | 1 |
| Limiting speed for grease lubrication | 35000 r/min |
| Basic static load rating C_0 | 5 kN |
| Static axial stiffness, preload class C | 138 N/ μ m |
| Attainable speed for grease lubrication | 35000 r/min |
| Static axial stiffness, preload class B | 105 N/ μ m |
| Static axial stiffness, preload class A | 71 N/ μ m |
| Attainable speed for oil-air lubrication | 54000 r/min |
| Basic static load rating - C_0 | 5 kN |
| Reference grease | 1.7 cm ³ |

| | |
|---|------|
| quantity G_{ref} | |
| Calculation factor (single, tandem) Y_2 | 0.87 |
| Calculation factor (single, tandem) Y_0 | 0.38 |
| Calculation factor (single, tandem) X_2 | 0.41 |
| Calculation factor (back- to-back, face-to-face) Y_1 | 0.92 |
| Calculation factor (back- to-back, face-to-face) Y_2 | 1.41 |
| Calculation factor (back- to-back, face-to-face) Y_0 | 0.76 |
| Calculation factor (back- to-back, face-to-face) X_2 | 0.67 |