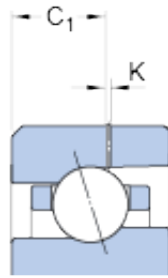
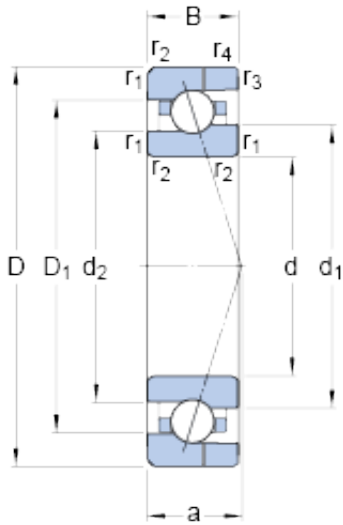




Timken Bearing Company



7 mm x 19 mm x 6 mm SKF 707 ACE/HCP4AH Radial thrust ball bearing

Bearing No. 707 ACE/HCP4AH

707 ACE/HCP4AH Bearing 2D drawings and 3D CAD models

| | |
|---|-----------|
| Size | 19x7x6 mm |
| Bore Diameter | 19 mm |
| Outer Diameter | 7 mm |
| Width | 6 mm |
| d | 7 mm |
| D | 19 mm |
| B | 6 mm |
| d ₁ | 10.4 mm |
| d ₂ | 9.9 mm |
| D ₁ | 15.7 mm |
| K | 0.5 mm |
| C ₁ | 3.65 mm |
| r _{1,2} - min. | 0.3 mm |
| r _{3,4} - min. | 0.15 mm |
| a | 6.1 mm |
| d _a - min. | 9 mm |
| d _b - min. | 9 mm |
| D _a - max. | 17 mm |
| D _b - max. | 17.6 mm |
| r _a - max. | 0.3 mm |
| r _b - max. | 0.15 mm |
| d _n | 11.4 mm |
| Basic dynamic load rating - C | 1.9 kN |
| Basic static load rating - C ₀ | 0.62 kN |



Timken Bearing Company

| | |
|---------------------------------------|----------------------|
| Fatigue load limit - P_u | 0.026 kN |
| Limiting speed for grease lubrication | 133000 r/min |
| Limiting speed for oil lubrication | 205000 mm/min |
| Ball - D_w | 3.572 mm |
| Ball - z | 8 |
| G_{ref} | 0.11 cm ³ |
| Calculation factor - e | 0.68 |
| Calculation factor - Y_2 | 0.87 |
| Calculation factor - Y_0 | 0.38 |
| Calculation factor - X_2 | 0.41 |
| Calculation factor - Y_1 | 0.92 |
| Calculation factor - Y_2 | 1.41 |
| Calculation factor - Y_0 | 0.76 |
| Calculation factor - X_2 | 0.67 |
| Preload class A - G_A | 17 N |
| Preload class B - G_B | 50 N |
| Preload class C - G_C | 100 N |
| Calculation factor - f | 1.02 |
| Calculation factor - f_1 | 0.99 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.03 |
| Calculation factor - f_{2C} | 1.06 |
| Calculation factor - f_{HC} | 1.01 |
| Preload class A | 23 N/micron |
| Preload class B | 34 N/micron |
| Preload class C | 45 N/micron |
| d_1 | 10.4 mm |
| d_2 | 9.9 mm |



Timken Bearing Company

| | |
|--|----------------------|
| D_1 | 15.7 mm |
| C_1 | 3.65 mm |
| $r_{1,2}$ min. | 0.3 mm |
| $r_{3,4}$ min. | 0.15 mm |
| d_a min. | 9 mm |
| d_b min. | 9 mm |
| D_a max. | 17 mm |
| D_b max. | 17.6 mm |
| r_a max. | 0.3 mm |
| r_b max. | 0.15 mm |
| d_n | 11.4 mm |
| Basic dynamic load rating C | 1.86 kN |
| Basic static load rating C_0 | 0.62 kN |
| Fatigue load limit P_u | 0.026 kN |
| Attainable speed for grease lubrication | 133000 r/min |
| Attainable speed for oil-air lubrication | 205000 r/min |
| Ball diameter D_w | 3.572 mm |
| Number of balls z | 8 |
| Reference grease quantity G_{ref} | 0.11 cm ³ |
| Preload class A G_A | 17 N |
| Static axial stiffness, preload class A | 23 N/ μ m |
| Preload class B G_B | 50 N |
| Static axial stiffness, preload class B | 34 N/ μ m |
| Preload class C G_C | 100 N |
| Static axial stiffness, preload class C | 45 N/ μ m |
| Calculation factor f | 1.02 |
| Calculation factor f_1 | 0.99 |
| Calculation factor f_{2A} | 1 |



Timken Bearing Company

| | |
|---|----------|
| Calculation factor f_{2B} | 1.03 |
| Calculation factor f_{2C} | 1.06 |
| Calculation factor f_{HC} | 1.01 |
| Calculation factor e | 0.68 |
| 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 |
| Mass bearing | 0.006 kg |