



60 mm x 95 mm x 18 mm skf 7012 CB/HCP4AL
Super-precision Angular contact ball bearings

Bearing No. 7012 CB/HCP4AL

7012 CB/HCP4AL Bearing 2D drawings and 3D CAD models

| | |
|-------------------------|-------------|
| Size | 95x60x18 mm |
| Bore Diameter | 95 mm |
| Outer Diameter | 60 mm |
| Width | 18 mm |
| d | 60 mm |
| D | 95 mm |
| B | 18 mm |
| d ₁ | 73.18 mm |
| d ₂ | 71.65 mm |
| D ₂ | 84.39 mm |
| b | 2.2 mm |
| C ₁ | 9 mm |
| C ₂ | 4.3 mm |
| C ₃ | 2.8 mm |
| r _{1,2} - min. | 1.1 mm |
| r _{3,4} - min. | 0.6 mm |
| a | 19.5 mm |
| d _a - min. | 66 mm |
| d _b - min. | 66 mm |
| D _a - max. | 89 mm |
| D _b - max. | 91.8 mm |
| r _a - max. | 1 mm |
| r _b - max. | 0.6 mm |
| d _n | 74.2 mm |
| | |



NTN Bearing Rolamentos do Brasil Ltda.

| | |
|---|----------------------|
| Basic dynamic load rating - C | 14.6 kN |
| Basic static load rating - C ₀ | 12 kN |
| Fatigue load limit - P _u | 0.51 kN |
| Limiting speed for grease lubrication | 24000 r/min |
| Limiting speed for oil lubrication | 36000 mm/min |
| Ball - D _w | 6.747 mm |
| Ball - z | 28 |
| G _{ref} | 5.03 cm ³ |
| Calculation factor - f ₀ | 9.7 |
| Preload class A - G _A | 48 N |
| Preload class B - G _B | 96 N |
| Preload class C - G _C | 290 N |
| Calculation factor - f | 1.06 |
| Calculation factor - f | 1 |
| Calculation factor - f _{2A} | 1 |
| Calculation factor - f _{2B} | 1.02 |
| Calculation factor - f _{2C} | 1.05 |
| Calculation factor - f _{HC} | 1.01 |
| Preload class A | 46 N/micron |
| Preload class B | 60 N/micron |
| Preload class C | 95 N/micron |
| d ₁ | 73.18 mm |
| d ₂ | 71.65 mm |
| D ₂ | 84.39 mm |
| C ₁ | 9 mm |
| C ₂ | 4.3 mm |
| C ₃ | 2.8 mm |
| r _{1,2} min. | 1.1 mm |



NTN Bearing Rolamentos do Brasil Ltda.

| | |
|--|----------------------|
| $r_{3,4}$ min. | 0.6 mm |
| d_a min. | 66 mm |
| d_b min. | 66 mm |
| D_a max. | 89 mm |
| D_b max. | 91.8 mm |
| r_a max. | 1 mm |
| r_b max. | 0.6 mm |
| d_n | 74.2 mm |
| Basic dynamic load rating C | 19.5 kN |
| Basic static load rating C_0 | 20 kN |
| Fatigue load limit P_u | 0.51 kN |
| Attainable speed for grease lubrication | 24000 r/min |
| Attainable speed for oil-air lubrication | 36000 r/min |
| Ball diameter D_w | 6.747 mm |
| Number of balls z | 28 |
| Reference grease quantity G_{ref} | 5.03 cm ³ |
| Preload class A G_A | 48 N |
| Static axial stiffness, preload class A | 46 N/ μ m |
| Preload class B G_B | 96 N |
| Static axial stiffness, preload class B | 60 N/ μ m |
| Preload class C G_C | 290 N |
| Static axial stiffness, preload class C | 95 N/ μ m |
| Calculation factor f | 1.06 |
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.02 |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{HC} | 1.01 |



NTN Bearing Rolamentos do Brasil Ltda.

| | |
|--------------------------|---------|
| Calculation factor f_0 | 9.7 |
| Mass bearing | 0.43 kg |