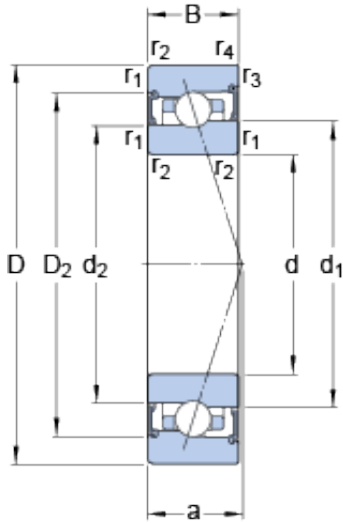




NTL BEARINGS LTD.

S71914 CB/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S71914 CB/HCP4A



S71914 CB/HCP4A Bearing 2D drawings and 3D CAD models

| | |
|---|--------------|
| Size | 100x70x16 mm |
| Bore Diameter | 100 mm |
| Outer Diameter | 70 mm |
| Width | 16 mm |
| d | 70 mm |
| D | 100 mm |
| B | 16 mm |
| d ₁ | 80.94 mm |
| d ₂ | 79.55 mm |
| D ₂ | 91.66 mm |
| r _{1,2} - min. | 1 mm |
| r _{3,4} - min. | 0.3 mm |
| a | 22.2 mm |
| d _a - min. | 74.6 mm |
| d _a - max. | 80.1 mm |
| d _b - min. | 74.6 mm |
| d _b - max. | 78.8 mm |
| D _a - max. | 95.4 mm |
| D _b - max. | 98 mm |
| r _a - max. | 1 mm |
| r _b - max. | 0.3 mm |
| Basic dynamic load rating - C | 13.5 kN |
| Basic static load rating - C ₀ | 12.2 kN |
| Fatigue load limit - P _u | 0.52 kN |



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| | |
|---------------------------------------|--------------|
| Limiting speed for grease lubrication | 22000 r/min |
| Ball - D_w | 6.35 mm |
| Ball - z | 32 |
| Calculation factor - f_0 | 9.9 |
| Preload class A - G_A | 45 N |
| Preload class B - G_B | 90 N |
| Preload class C - G_C | 270 N |
| Calculation factor - f | 1.1 |
| Calculation factor - f | 1 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.03 |
| Calculation factor - f_{2C} | 1.08 |
| Calculation factor - f_{HC} | 1.01 |
| Preload class A | 48 N/micron |
| Preload class B | 63 N/micron |
| Preload class C | 101 N/micron |
| d_1 | 80.94 mm |
| d_2 | 79.55 mm |
| D_2 | 91.66 mm |
| $r_{1,2}$ min. | 1 mm |
| $r_{3,4}$ min. | 0.3 mm |
| d_a min. | 74.6 mm |
| d_a max. | 80.1 mm |
| d_b min. | 74.6 mm |
| d_b max. | 78.8 mm |
| D_a max. | 95.4 mm |
| D_b max. | 98 mm |
| r_a max. | 1 mm |
| r_b max. | 0.3 mm |
| Basic dynamic load rating C | 18.2 kN |



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| | |
|---|----------------|
| Basic static load rating C_0 | 20 kN |
| Fatigue load limit P_u | 0.52 kN |
| Attainable speed for grease lubrication | 22000 r/min |
| Ball diameter D_w | 6.35 mm |
| Number of balls z | 32 |
| Preload class A G_A | 45 N |
| Static axial stiffness, preload class A | 48 N/ μ m |
| Preload class B G_B | 90 N |
| Static axial stiffness, preload class B | 63 N/ μ m |
| Preload class C G_C | 270 N |
| Static axial stiffness, preload class C | 101 N/ μ m |
| Calculation factor f | 1.1 |
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.03 |
| Calculation factor f_{2C} | 1.08 |
| Calculation factor f_{HC} | 1.01 |
| Calculation factor f_0 | 9.9 |
| Mass bearing | 0.34 kg |