



Toyana Bearing Manufacturing of Canada



9 mm x 24 mm x 7 mm SKF 709 CD/P4A
angular contact ball bearings

Bearing No. 709 CD/P4A

709 CD/P4A Bearing 2D drawings and 3D CAD models

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|---|-------------|
| Size | 24x9x7 mm |
| Bore Diameter | 24 mm |
| Outer Diameter | 9 mm |
| Width | 7 mm |
| d | 9 mm |
| D | 24 mm |
| B | 7 mm |
| d ₁ | 14.1 mm |
| d ₂ | 14.1 mm |
| D ₁ | 18.9 mm |
| r _{1,2} - min. | 0.3 mm |
| r _{3,4} - min. | 0.2 mm |
| a | 5.7 mm |
| d _a - min. | 11 mm |
| d _b - min. | 11 mm |
| D _a - max. | 22 mm |
| D _b - max. | 22.6 mm |
| r _a - max. | 0.3 mm |
| r _b - max. | 0.2 mm |
| d _n | 15.1 mm |
| Basic dynamic load rating - C | 3.6 kN |
| Basic static load rating - C ₀ | 1.6 kN |
| Fatigue load limit - P _u | 0.068 kN |
| Limiting speed for grease | 80000 r/min |



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| Lubrication | |
| Limiting speed for oil lubrication | 120000 mm/min |
| Ball - D_w | 3.969 mm |
| Ball - z | 10 |
| G_{ref} | 0.18 cm ³ |
| Calculation factor - f_0 | 8.8 |
| Preload class A - G_A | 10 N |
| Preload class B - G_B | 20 N |
| Preload class C - G_C | 40 N |
| Preload class D - G_D | 80 N |
| Calculation factor - f | 1.02 |
| Calculation factor - f | 1 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.02 |
| Calculation factor - f_{2C} | 1.05 |
| Calculation factor - f_{2D} | 1.09 |
| Calculation factor - f_{HC} | 1 |
| Preload class A | 11 N/micron |
| Preload class B | 15 N/micron |
| Preload class C | 20 N/micron |
| Preload class D | 29 N/micron |
| Category | Bearings |
| Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| UNSPSC | 31171531 |
| Weight / Kilogram | 0.015 |
| Product Group | B04270 |
| d_1 | 14.1 mm |
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| d_2 | 14.1 mm |
| D_1 | 18.9 mm |
| $r_{1,2}$ min. | 0.3 mm |
| $r_{3,4}$ min. | 0.2 mm |
| d_a min. | 11 mm |
| d_b min. | 11 mm |
| D_a max. | 22 mm |
| D_b max. | 22.6 mm |
| r_a max. | 0.3 mm |
| r_b max. | 0.2 mm |
| d_n | 15.1 mm |
| Basic dynamic load rating C | 3.58 kN |
| Basic static load rating C_0 | 1.6 kN |
| Fatigue load limit P_u | 0.068 kN |
| Attainable speed for grease lubrication | 80000 r/min |
| Attainable speed for oil-air lubrication | 120000 r/min |
| Ball diameter D_w | 3.969 mm |
| Number of balls z | 10 |
| Reference grease quantity G_{ref} | 0.18 cm ³ |
| Preload class A G_A | 10 N |
| Static axial stiffness, preload class A | 11 N/ μ m |
| Preload class B G_B | 20 N |
| Static axial stiffness, preload class B | 15 N/ μ m |
| Preload class C G_C | 40 N |
| Static axial stiffness, preload class C | 20 N/ μ m |
| Preload class D G_D | 80 N |
| Static axial stiffness, preload class D | 29 N/ μ m |
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| Calculation factor f | 1.02 |
| 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_{2D} | 1.09 |
| Calculation factor f_{HC} | 1 |
| Calculation factor f_0 | 8.8 |
| Mass bearing | 0.015 kg |