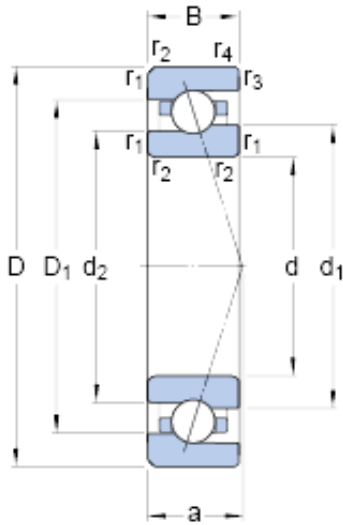




Jinan Shenglei Bearing Co., Ltd.



7013 CE/HCP4A Bearing 2D drawings and 3D CAD models

65 mm x 100 mm x 18 mm SKF 7013 CE/HCP4A Angular contact ball bearing

Bearing No. 7013 CE/HCP4A

| | |
|---|--------------|
| Size | 100x65x18 mm |
| Bore Diameter | 100 mm |
| Outer Diameter | 65 mm |
| Width | 18 mm |
| d | 65 mm |
| D | 100 mm |
| B | 18 mm |
| d ₁ | 77.26 mm |
| d ₂ | 74.9 mm |
| D ₁ | 87.72 mm |
| r _{1,2} - min. | 1.1 mm |
| r _{3,4} - min. | 0.6 mm |
| a | 20.2 mm |
| d _a - min. | 71 mm |
| d _b - min. | 71 mm |
| D _a - max. | 94 mm |
| D _b - max. | 95.8 mm |
| r _a - max. | 1 mm |
| r _b - max. | 0.6 mm |
| d _n | 79.3 mm |
| Basic dynamic load rating - C | 20.3 kN |
| Basic static load rating - C ₀ | 15.6 kN |
| Fatigue load limit - P _u | 0.655 kN |
| Limiting speed for grease | 22000 r/min |



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|------------------------------------|---------------------|
| Lubrication | |
| Limiting speed for oil lubrication | 34000 mm/min |
| Ball - D_w | 8.731 mm |
| Ball - z | 25 |
| G_{ref} | 6.2 cm ³ |
| Calculation factor - f_0 | 8.4 |
| Preload class A - G_A | 110 N |
| Preload class B - G_B | 330 N |
| Preload class C - G_C | 650 N |
| Calculation factor - f | 1.09 |
| Calculation factor - f | 1 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.03 |
| Calculation factor - f_{2C} | 1.05 |
| Calculation factor - f_{HC} | 1.01 |
| Preload class A | 59 N/micron |
| Preload class B | 92 N/micron |
| Preload class C | 124 N/micron |
| d_1 | 77.26 mm |
| d_2 | 74.9 mm |
| D_1 | 87.72 mm |
| $r_{1,2}$ min. | 1.1 mm |
| $r_{3,4}$ min. | 0.6 mm |
| d_a min. | 71 mm |
| d_b min. | 71 mm |
| D_a max. | 94 mm |
| D_b max. | 95.8 mm |
| r_a max. | 1 mm |
| r_b max. | 0.6 mm |
| d_n | 79.3 mm |



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| | |
|--|---------------------|
| Basic dynamic load rating C | 20.3 kN |
| Basic static load rating C_0 | 15.6 kN |
| Fatigue load limit P_u | 0.655 kN |
| Attainable speed for grease lubrication | 22000 r/min |
| Attainable speed for oil-air lubrication | 34000 r/min |
| Ball diameter D_w | 8.731 mm |
| Number of balls z | 25 |
| Reference grease quantity G_{ref} | 6.2 cm ³ |
| Preload class A G_A | 110 N |
| Static axial stiffness, preload class A | 59 N/ μ m |
| Preload class B G_B | 330 N |
| Static axial stiffness, preload class B | 92 N/ μ m |
| Preload class C G_C | 650 N |
| Static axial stiffness, preload class C | 124 N/ μ m |
| Calculation factor f | 1.09 |
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.03 |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{HC} | 1.01 |
| Calculation factor f_0 | 8.4 |
| Mass bearing | 0.39 kg |