



Huaxin Bearing Co., Ltd



7012 CD/P4A Bearing 2D drawings and 3D CAD models

60 mm x 95 mm x 18 mm SKF 7012 CD/P4A
angular contact ball bearings

Bearing No. 7012 CD/P4A

| | |
|---|-------------|
| 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 | 70.8 mm |
| d ₂ | 70.8 mm |
| D ₁ | 84.2 mm |
| r _{1,2} - min. | 1.1 mm |
| r _{3,4} - min. | 0.6 mm |
| a | 19.4 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 | 73.1 mm |
| Basic dynamic load rating - C | 40.3 kN |
| Basic static load rating - C ₀ | 34.5 kN |
| Fatigue load limit - P _u | 1.5 kN |
| Limiting speed for grease | 14000 r/min |



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|------------------------------------|-------------------------|
| Lubrication | |
| Limiting speed for oil lubrication | 22000 mm/min |
| Ball - D_w | 11.112 mm |
| Ball - z | 19 |
| G_{ref} | 5.4 cm ³ |
| Calculation factor - f_0 | 15.4 |
| Preload class A - G_A | 150 N |
| Preload class B - G_B | 300 N |
| Preload class C - G_C | 600 N |
| Preload class D - G_D | 1200 N |
| Calculation factor - f | 1.12 |
| 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 | 70 N/micron |
| Preload class B | 95 N/micron |
| Preload class C | 133 N/micron |
| Preload class D | 193 N/micron |
| Category | Precision Ball Bearings |
| Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 0.42 |
| EAN | 7316570055511 |
| Product Group | B04270 |
| Enclosure | Open |
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| Precision Class | ABEC 7 ISO P4 |
| Material - Ball | Steel |
| Number of Bearings | 1 (Single) |
| Contact Angle | 15 Degree |
| Preload | None |
| Raceway Style | 1 Rib Outer Ring |
| Cage Material | Phenolic |
| Rolling Element | Ball Bearing |
| Flush Ground | No |
| Inch - Metric | Metric |
| Other Features | Single Row Angular Contact High Precision |
| Long Description | 60MM Bore; 95MM Outside Diameter; 18MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Rac |
| Category | Precision Ball Bearings |
| UNSPSC | 31171531 |
| Harmonized Tariff Code | 8482.10.50.28 |
| Noun | Bearing |
| Keyword String | Angular Contact Ball |
| Manufacturer URL | http://www.skf.com |
| Manufacturer Item Number | 7012 CD/P4A |
| Weight / LBS | 0.922 |
| Outside Diameter | 3.74 Inch 95 Millimeter |
| Bore | 2.362 Inch 60 Millimeter |
| Width | 0.709 Inch 18 Millimeter |
| d ₁ | 70.8 mm |
| d ₂ | 70.8 mm |
| D ₁ | 84.2 mm |



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|--|---------------------|
| $r_{1,2}$ min. | 1.1 mm |
| $r_{3,4}$ 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 | 73.1 mm |
| Basic dynamic load rating C | 40.3 kN |
| Basic static load rating C_0 | 34.5 kN |
| Fatigue load limit P_u | 1.5 kN |
| Attainable speed for grease lubrication | 14000 r/min |
| Attainable speed for oil-air lubrication | 22000 r/min |
| Ball diameter D_w | 11.112 mm |
| Number of balls z | 19 |
| Reference grease quantity G_{ref} | 5.4 cm ³ |
| Preload class A G_A | 150 N |
| Static axial stiffness, preload class A | 70 N/ μ m |
| Preload class B G_B | 300 N |
| Static axial stiffness, preload class B | 95 N/ μ m |
| Preload class C G_C | 600 N |
| Static axial stiffness, preload class C | 133 N/ μ m |
| Preload class D G_D | 1200 N |
| Static axial stiffness, preload class D | 193 N/ μ m |
| Calculation factor f | 1.12 |
| Calculation factor f_1 | 1 |
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|-----------------------------|--------|
| 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 | 15.4 |
| Mass bearing | 0.4 kg |