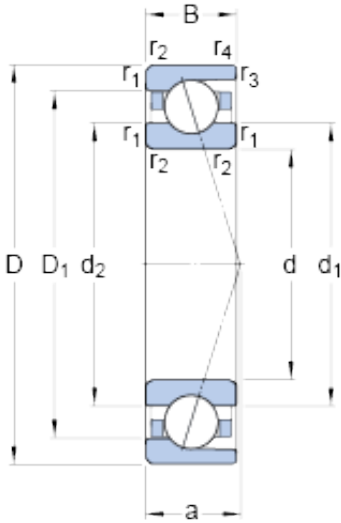




Timken BEARING CORP.of CANADA LTD.



7205 CD/HCP4A Bearing 2D drawings and 3D CAD models

25 mm x 52 mm x 15 mm SKF 7205 CD/HCP4A angular contact ball bearings

Bearing No. 7205 CD/HCP4A

| | |
|---|-------------|
| Size | 52x25x15 mm |
| Bore Diameter | 52 mm |
| Outer Diameter | 25 mm |
| Width | 15 mm |
| d | 25 mm |
| D | 52 mm |
| B | 15 mm |
| d ₁ | 34.1 mm |
| d ₂ | 34.1 mm |
| D ₁ | 43.7 mm |
| r _{1,2} - min. | 1 mm |
| r _{3,4} - min. | 0.3 mm |
| a | 12.8 mm |
| d _a - min. | 30.6 mm |
| d _b - min. | 30.6 mm |
| D _a - max. | 46.4 mm |
| D _b - max. | 49.6 mm |
| r _a - max. | 1 mm |
| r _b - max. | 0.3 mm |
| d _n | 36.1 mm |
| Basic dynamic load rating - C | 13.5 kN |
| Basic static load rating - C ₀ | 7.2 kN |
| Fatigue load limit - P _u | 0.305 kN |
| Limiting speed for grease | 38000 r/min |



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| | |
|------------------------------------|-------------------------|
| Lubrication | |
| Limiting speed for oil lubrication | 53000 mm/min |
| Ball - D_w | 7.938 mm |
| Ball - z | 13 |
| G_{ref} | 1.872 cm ³ |
| Calculation factor - f_0 | 9.1 |
| Preload class A - G_A | 50 N |
| Preload class B - G_B | 100 N |
| Preload class C - G_C | 200 N |
| Preload class D - G_D | 400 N |
| Calculation factor - f | 1.03 |
| Calculation factor - f | 1 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.01 |
| Calculation factor - f_{2C} | 1.03 |
| Calculation factor - f_{2D} | 1.06 |
| Calculation factor - f_{HC} | 1.01 |
| Preload class A | 32 N/micron |
| Preload class B | 42 N/micron |
| Preload class C | 58 N/micron |
| Preload class D | 80 N/micron |
| Category | Precision Ball Bearings |
| Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 0 |
| EAN | 7316570807998 |
| Product Group | B04270 |
| Enclosure | Open |
| | |



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| | |
|--------------------------|--|
| Precision Class | ABEC 7 ISO P4 |
| Material - Ball | Ceramic |
| 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 Capacity Basic Design |
| Long Description | 25MM Bore; 52MM Outside Diameter; 15MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra |
| Category | Precision Ball Bearings |
| UNSPSC | 31171531 |
| Harmonized Tariff Code | 8482.10.50.28 |
| Noun | Bearing |
| Keyword String | Ball Angular Contact |
| Manufacturer URL | http://www.skf.com |
| Manufacturer Item Number | 7205 CD/HCP4A |
| Weight / LBS | 0.262 |
| Outside Diameter | 2.047 Inch 52 Millimeter |
| Width | 0.591 Inch 15 Millimeter |
| Bore | 0.984 Inch 25 Millimeter |
| d ₁ | 34.1 mm |
| d ₂ | 34.1 mm |
| | |



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| | |
|--|-----------------------|
| D_1 | 43.7 mm |
| $r_{1,2}$ min. | 1 mm |
| $r_{3,4}$ min. | 0.3 mm |
| d_a min. | 30.6 mm |
| d_b min. | 30.6 mm |
| D_a max. | 46.4 mm |
| D_b max. | 49.6 mm |
| r_a max. | 1 mm |
| r_b max. | 0.3 mm |
| d_n | 36.1 mm |
| Basic dynamic load rating C | 13.5 kN |
| Basic static load rating C_0 | 7.2 kN |
| Fatigue load limit P_u | 0.305 kN |
| Attainable speed for grease lubrication | 38000 r/min |
| Attainable speed for oil-air lubrication | 53000 r/min |
| Ball diameter D_w | 7.938 mm |
| Number of balls z | 13 |
| Reference grease quantity G_{ref} | 1.872 cm ³ |
| Preload class A G_A | 50 N |
| Static axial stiffness, preload class A | 32 N/ μ m |
| Preload class B G_B | 100 N |
| Static axial stiffness, preload class B | 42 N/ μ m |
| Preload class C G_C | 200 N |
| Static axial stiffness, preload class C | 58 N/ μ m |
| Preload class D G_D | 400 N |
| Static axial stiffness, preload class D | 80 N/ μ m |
| Calculation factor f | 1.03 |
| | |



Timken BEARING CORP.of CANADA LTD.

| | |
|-----------------------------|---------|
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.01 |
| Calculation factor f_{2C} | 1.03 |
| Calculation factor f_{2D} | 1.06 |
| Calculation factor f_{HC} | 1.01 |
| Calculation factor f_0 | 9.1 |
| Mass bearing | 0.11 kg |