



Bearing No. 7205 BEP

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| a | 24 mm |
| d | 25 mm |
| D | 52 mm |
| B | 15 mm |
| Noun | Bearing |
| Bore | 0.984 Inch 25 Millimeter |
| Width | 0.591 Inch 15 Millimeter |
| UNSPSC | 31171531 |
| series: | 72 |
| Category | Angular Contact Ball Bearing |
| Enclosure | Open |
| Snap Ring | No |
| Size (mm) | 52x25x15 |
| Inventory | 0.0 |
| Width (mm) | 15 |
| Weight / LBS | 0.278 |
| maximum rpm: | 15000 RPM |
| Flush Ground | No |
| Mass bearing | 0.13 kg |
| Contact Angle | 40 Degree |
| Cage Material | Polymer |
| closure type: | Open |
| Product Group | B00308 |
| Inch - Metric | Metric |
| d ₁ | 36.1 mm |
| d ₂ | 30.87 mm |
| D ₁ | 41.57 mm |
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| Bearing number | 7205 BEP |
| Keyword String | Angular Contact |
| fillet radius: | 1 mm |
| contact angle: | 40 ° |
| overall width: | 15 mm |
| cage material: | Nylon |
| bore diameter: | 25 mm |
| Limiting speed | 15000 r/min |
| finish/coating: | Uncoated |
| Reference speed | 15000 r/min |
| Rolling Element | Ball Bearing |
| Precision Class | ABEC 3 ISO P6 |
| Outside Diameter | 2.047 Inch 52 Millimeter |
| Manufacturer URL | http://www.skf.com |
| Long Description | 25MM Bore; 52MM Outside Diameter; 15MM Width; Open; No Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3 ISO P6; No Filling Slot; No Snap Ring |
| outer ring width: | 15 mm |
| outside diameter: | 52 mm |
| precision rating: | Not Rated |
| Manufacturer Name | SKF |
| Weight / Kilogram | 0.125 |
| Number of Bearings | 1 (Single) |
| Internal Clearance | C0-Medium |
| d _a min. | 30.6 mm |
| Bore Diameter (mm) | 52 |
| D _a max. | 46.4 mm |
| D _b max. | 47.8 mm |
| r _a max. | 1 mm |

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| r_b max. | 0.6 mm |
| Outer Diameter (mm) | 25 |
| internal clearance: | C0 |
| $r_{1,2}$ min. | 1 mm |
| Calculation factor A | 0.00159 |
| Calculation factor e | 1.14 |
| Calculation factor X | 0.57 |
| $r_{3,4}$ min. | 0.6 mm |
| Minimum Buy Quantity | N/A |
| D_a - max. | 46.4 mm |
| r_b - max. | 0.6 mm |
| r_a - max. | 1 mm |
| D_b - max. | 47.8 mm |
| d_a - min. | 30.6 mm |
| d_2 ? | 30.87 mm |
| D_1 ? | 41.57 mm |
| d_1 ? | 36.1 mm |
| row type & fill slot: | Single-Row Non-Fill Slot |
| Calculation factor - X | 0.35 |
| Calculation factor - e | 1.14 |
| Harmonized Tariff Code | 8482.10.50.28 |
| $r_{1,2}$ - min. | 1 mm |
| $r_{3,4}$ - min. | 0.6 mm |
| Number of Rows of Balls | Single Row |
| Manufacturer Item Number | 7205 BEP |
| Basic dynamic load rating C | 14.8 kN |
| radial static load capacity: | 9.3 kN |
| Basic dynamic load rating - C | 14.8 kN |
| radial dynamic load capacity: | 14.8 kN |

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| Maximum Capacity / Filling Slot | No |
| Calculation factor Y_1 | 0.55 |
| Calculation factor Y_2 | 0.93 |
| Calculation factor k_r | 0.095 |
| Fatigue load limit P_u | 0.4 kN |
| Calculation factor Y_0 | 0.52 |
| Fatigue load limit - P_u | 0.4 kN |
| Calculation factor - Y_2 | 0.57 |
| Calculation factor - Y_1 | |
| Calculation factor - k_a | 1.4 |
| Calculation factor - Y_0 | 0.26 |
| Calculation factor - k_r | 0.095 |
| Basic static load rating C_0 | 9.3 kN |
| Basic static load rating - C_0 | 9.3 kN |