

1314 SKF closure type: Open 150x70x35mm Self aligning ball bearings

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| Bearing number | 1314 |
| Size (mm) | 150x70x35 |
| Brand | SKF |
| Bore Diameter (mm) | 150 |
| Outer Diameter (mm) | 70 |
| Width (mm) | 35 |
| d | 70 mm |
| D | 150 mm |
| B | 35 mm |
| d_1 | 97.5 mm |
| D_1 | 126.8 mm |
| $r_{1,2} - \text{min.}$ | 2.1 mm |
| $d_a - \text{min.}$ | 82 mm |
| $D_a - \text{max.}$ | 138 mm |
| $r_a - \text{max.}$ | 2 mm |
| Basic dynamic load rating – C | 74.1 kN |
| Basic static load rating – C_0 | 27.5 kN |
| Fatigue load limit – P_u | 1.3 kN |
| Reference speed | 8500 r/min |
| Limiting speed | 6000 r/min |
| Calculation factor – k_r | 0.045 |
| Calculation factor – e | 0.22 |

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| Calculation factor – Y ₀ | 2.8 |
| Calculation factor – Y ₁ | 2.9 |
| Calculation factor – Y ₂ | 4.5 |
| Category | Self Aligning Ball Bearings |
| BDI Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 3.057 |
| EAN | 7316576605086 |
| Product Group – BDI | B00152 |
| Mounting Method | Shaft |
| Enclosure | Open |
| Rolling Element | Ball Bearing |
| Cage Material | Steel |
| Precision Class | ABEC 1 ISO P0 |
| Internal Clearance | C0-Medium |
| Number of Rows of Balls | Double Row |
| Other Features | Allowable Misalignment 3 Deg |
| Long Description | 70MM Bore; Shaft Mount; 150MM Outside Diameter; 35MM Inner Race Width; 35MM Outer Race Width; Open; Steel Cage; Double Row of Balls; ABEC 1 ISO P0; C0-Medium |
| Inch – Metric | Metric |
| Category – BDI | Self Aligning Ball Bearings |
| UNSPSC | 31171532 |
| Harmonized Tariff Code | 8482.10.50.68 |
| Noun | Bearing |

| Keyword String | Self Aligning |
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| Manufacturer URL | http://www.skf.com |
| Manufacturer Item Number | 1314 |
| Weight / LBS | 6.733 |
| Bore | 2.756 Inch 70 Millimeter |
| Inner Race Width | 1.378 Inch 35 Millimeter |
| Outside Diameter | 5.906 Inch 150 Millimeter |
| Outer Race Width | 1.378 Inch 35 Millimeter |
| bore diameter: | 70 mm |
| precision rating: | Not Rated |
| outside diameter: | 150 mm |
| maximum rpm: | 6000 RPM |
| overall width: | 35 mm |
| cage material: | Steel |
| bore type: | Straight |
| finish/coating: | Uncoated |
| closure type: | Open |
| outer ring width: | 35 mm |
| internal clearance: | C0 |
| fillet radius: | 2 mm |
| dynamic load capacity: | 74.1 kN |
| series: | 1300 |
| static load capacity: | 27.5 kN |
| $d_1 \approx$ | 97.5 mm |
| $D_1 \approx$ | 126.8 mm |
| $r_{1,2} \text{ min.}$ | 2.1 mm |
| $d_a \text{ min.}$ | 82 mm |
| $D_a \text{ max.}$ | 138 mm |

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|-------------------------------------------|---------|
| r_a max. | 2 mm |
| Basic dynamic load rating C | 74.1 kN |
| Basic static load rating C_0 | 27.5 kN |
| Fatigue load limit P_u | 1.34 kN |
| Permissible angular misalignment α | 3 ° |
| Calculation factor k_r | 0.045 |
| Calculation factor e | 0.22 |
| Calculation factor Y_0 | 2.8 |
| Calculation factor Y_1 | 2.9 |
| Calculation factor Y_2 | 4.5 |
| Mass bearing | 3 kg |