

2312 SKF 130x60x46mm static load capacity: 28.5 kN Self aligning ball bearings

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| Bearing number | 2312 |
| Size (mm) | 130x60x46 |
| Brand | SKF |
| Bore Diameter (mm) | 130 |
| Outer Diameter (mm) | 60 |
| Width (mm) | 46 |
| d | 60 mm |
| D | 130 mm |
| B | 46 mm |
| d_1 | 77.1 mm |
| D_1 | 109.2 mm |
| $r_{1,2} - \text{min.}$ | 2.1 mm |
| $d_a - \text{min.}$ | 72 mm |
| $D_a - \text{max.}$ | 118 mm |
| $r_a - \text{max.}$ | 2 mm |
| Basic dynamic load rating – C | 87.1 kN |
| Basic static load rating – C_0 | 28.5 kN |
| Fatigue load limit – P_u | 1.5 kN |
| Reference speed | 9500 r/min |
| Limiting speed | 7000 r/min |
| Calculation factor – k_r | 0.05 |
| Calculation factor – e | 0.33 |

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| Calculation factor – Y ₀ | 2 |
| Calculation factor – Y ₁ | 1.9 |
| Calculation factor – Y ₂ | 3 |
| Product Group – BDI | B00152 |
| Category | Self Aligning Ball Bearings |
| BDI Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 2.656 |
| EAN | 7316576605253 |
| 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 | 60MM Bore; Shaft Mount; 130MM Outside Diameter; 46MM Inner Race Width; 46MM 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 |
|--------------------------|-----------------------------------------------------|
| Manufacturer URL | http://www.skf.com |
| Manufacturer Item Number | 2312 |
| Weight / LBS | 5.851 |
| Bore | 2.362 Inch 60 Millimeter |
| Outside Diameter | 5.118 Inch 130 Millimeter |
| Inner Race Width | 1.811 Inch 46 Millimeter |
| Outer Race Width | 1.811 Inch 46 Millimeter |
| bore diameter: | 60 mm |
| static load capacity: | 28.5 kN |
| outside diameter: | 130 mm |
| precision rating: | Not Rated |
| overall width: | 46 mm |
| maximum rpm: | 7000 RPM |
| bore type: | Straight |
| finish/coating: | Uncoated |
| closure type: | Open |
| outer ring width: | 46 mm |
| internal clearance: | C0 |
| fillet radius: | 2 mm |
| dynamic load capacity: | 87.1 kN |
| series: | 2300 |
| $d_1 \approx$ | 77.1 mm |
| $D_1 \approx$ | 109.2 mm |
| $r_{1,2} \text{ min.}$ | 2.1 mm |
| $d_a \text{ min.}$ | 72 mm |
| $D_a \text{ max.}$ | 118 mm |
| $r_a \text{ max.}$ | 2 mm |

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|-------------------------------------------|---------|
| Basic dynamic load rating C | 87.1 kN |
| Basic static load rating C_0 | 28.5 kN |
| Fatigue load limit P_u | 1.46 kN |
| Permissible angular misalignment α | 3 ° |
| Calculation factor k_r | 0.05 |
| Calculation factor e | 0.33 |
| Calculation factor Y_0 | 2 |
| Calculation factor Y_1 | 1.9 |
| Calculation factor Y_2 | 3 |
| Mass bearing | 2.6 kg |