

1320 SKF 215x100x47mm

Calculation factor e 0.23

Self aligning ball bearings

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| Bearing number | 1320 |
| Size (mm) | 215x100x47 |
| Brand | SKF |
| Bore Diameter (mm) | 215 |
| Outer Diameter (mm) | 100 |
| Width (mm) | 47 |
| d | 100 mm |
| D | 215 mm |
| B | 47 mm |
| d_1 | 136 mm |
| D_1 | 181.9 mm |
| C_1 | 2.469 mm |
| $r_{1,2} - \text{min.}$ | 3 mm |
| $d_a - \text{min.}$ | 114 mm |
| $D_a - \text{max.}$ | 201 mm |
| $r_a - \text{max.}$ | 3 mm |
| Basic dynamic load rating – C | 143 kN |
| Basic static load rating – C_0 | 57 kN |
| Fatigue load limit – P_u | 2.4 kN |
| Reference speed | 6000 r/min |
| Limiting speed | 4000 r/min |
| Calculation factor – k_r | 0.045 |

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| Calculation factor – e | 0.23 |
| Calculation factor – Y ₀ | 2.8 |
| Calculation factor – Y ₁ | 2.7 |
| Calculation factor – Y ₂ | 4.2 |
| Category | Self Aligning Ball Bearings |
| BDI Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 8.434 |
| EAN | 7316576605673 |
| 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 | 100MM Bore; Shaft Mount; 215MM Outside Diameter; 47MM Inner Race Width; 47MM 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 | 1320 |
| Weight / LBS | 18.576 |
| Inner Race Width | 1.85 Inch 47 Millimeter |
| Outer Race Width | 1.85 Inch 47 Millimeter |
| Outside Diameter | 8.465 Inch 215 Millimeter |
| Bore | 3.937 Inch 100 Millimeter |
| bore diameter: | 100 mm |
| precision rating: | Not Rated |
| outside diameter: | 215 mm |
| maximum rpm: | 4000 RPM |
| overall width: | 47 mm |
| cage material: | Steel |
| bore type: | Straight |
| finish/coating: | Uncoated |
| closure type: | Open |
| outer ring width: | 47 mm |
| internal clearance: | C0 |
| fillet radius: | 3 mm |
| dynamic load capacity: | 143 kN |
| series: | 1300 |
| static load capacity: | 57 kN |
| $d_1 \approx$ | 136 mm |
| $D_1 \approx$ | 181.9 mm |
| C_1 | 2.469 mm |
| $r_{1,2} \text{ min.}$ | 3 mm |

| | |
|---|---------|
| d_a min. | 114 mm |
| D_a max. | 201 mm |
| r_a max. | 3 mm |
| Basic dynamic load rating C | 143 kN |
| Basic static load rating C_0 | 57 kN |
| Fatigue load limit P_u | 2.36 kN |
| Permissible angular misalignment α | 3 ° |
| Calculation factor k_r | 0.045 |
| Calculation factor e | 0.23 |
| Calculation factor Y_0 | 2.8 |
| Calculation factor Y_1 | 2.7 |
| Calculation factor Y_2 | 4.2 |
| Mass bearing | 8.3 kg |