



SKF 2312

Self-aligning ball bearing

Self-aligning ball bearings have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection.

Technical specifications

| | |
|--------------------------------------|---------------|
| Bore type | Cylindrical |
| Dimensions | |
| Bore diameter | 60 mm |
| Outside diameter | 130 mm |
| Width | 46 mm |
| Shoulder diameter inner ring | 77.1 mm |
| Shoulder diameter outer ring | 109.2 mm |
| Chamfer dimension | 2.1 mm |
| Abutment dimensions | |
| Abutment diameter shaft | 72 mm |
| Abutment diameter housing | 118 mm |
| Fillet radius | 2 mm |
| Calculation data | |
| Basic dynamic load rating | 87.1 kN |
| Basic static load rating | 28.5 kN |
| Fatigue load limit | 1.46 kN |
| Reference speed | 9500 r/min |
| Limiting speed | 7000 r/min |
| Permissible angular misalignment | 3 ° |
| Calculation factor | 0.05 |
| Limiting value | 0.4 |
| Calculation factor | 1.6 |
| Calculation factor | 1.6 |
| Calculation factor | 2.4 |
| Performance | |
| Basic dynamic load rating | 87.1 kN |
| Basic static load rating | 28.5 kN |
| Reference speed | 9500 r/min |
| Limiting speed | 7000 r/min |
| Properties | |
| Retaining feature, inner ring | None |
| Locating feature, bearing outer ring | Without |
| Number of rows | 2 |
| Bore type | Cylindrical |
| Cage | Sheet metal |
| Radial internal clearance | CN |
| Tolerance class | Normal |
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Without |

Indicative carbon footprint for new product

9.4 kg CO₂e

| Logistics | |
|--------------------|-------------|
| Product net weight | 2.6 kg |
| eClass code | 23-05-08-06 |
| UNSPSC code | 31171532 |

SKF drawings

