

SKF 51317

Single direction thrust ball bearing

Single direction thrust ball bearings can accommodate axial loads in one direction. They must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit.



Technical specifications

| Dimensions | |
|-------------------------------|--------|
| Bore diameter | 85 mm |
| Outside diameter | 150 mm |
| Height | 49 mm |
| Outside diameter shaft washer | 150 mm |
| Inner diameter housing washer | 88 mm |
| Chamfer dimension washer | 1.5 mm |

| Abutment dimensions | |
|---------------------------|--------|
| Abutment diameter shaft | 124 mm |
| Abutment diameter housing | 111 mm |
| Fillet radius | 1.5 mm |

| Calculation data | |
|---------------------------|------------|
| Basic dynamic load rating | 174 kN |
| Basic static load rating | 405 kN |
| Fatigue load limit | 14 kN |
| Reference speed | 1600 r/min |
| Limiting speed | 2200 r/min |
| Minimum load factor | 1.1 |

| Performance | |
|---------------------------|------------|
| Basic dynamic load rating | 174 kN |
| Basic static load rating | 405 kN |
| Reference speed | 1600 r/min |
| Limiting speed | 2200 r/min |

| Properties | |
|---|---------------------------|
| Axial load capability | Single-direction |
| Number of rows | 1 |
| Cage | Sheet metal |
| Housing washer type | Flat |
| Tolerance class | Normal |
| Material, bearing | Bearing steel |
| Coating | Without |
| Indicative carbon footprint for new product | 12.3 kg CO ₂ e |

| Logistics | |
|--------------------|-------------|
| Product net weight | 3.43 kg |
| eClass code | 23-05-10-01 |
| UNSPSC code | 31171507 |

SKF drawings

