



## SKF 30203

### Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

## Technical specifications

| General   |              |
|---|--------------|
| Dimension series  | 2DB          |
| Dimensions  |              |
| Bore diameter   | 17 mm        |
| Outside diameter  | 40 mm        |
| Bearing width, total  | 13.25 mm     |
| Shoulder diameter of inner ring                               | 29 mm        |
| Width of inner ring   | 12 mm        |
| Width of outer ring   | 11 mm        |
| Chamfer dimension of inner ring                               | 1 mm         |
| Chamfer dimension of outer ring                               | 1 mm         |
| Distance side face to pressure point                          | 9.515 mm     |
| Width, total  | 13.25 mm     |
| Width, inner ring   | 12 mm        |
| Width, outer ring   | 11 mm        |
| Contact angle   | 13 °         |
| Abutment dimensions   |              |
| Diameter of shaft abutment                                    | 23 mm        |
| Diameter of shaft abutment                                    | 23.5 mm      |
| Diameter of housing abutment                                  | 34 mm        |
| Diameter of housing abutment                                  | 34.5 mm      |
| Diameter of housing abutment                                  | 37 mm        |
| Minimum width of space required in housing on large side face | 2 mm         |
| Minimum width of space required in housing on small side face | 2 mm         |
| Radius of shaft fillet  | 1 mm         |
| Radius of housing fillet                                      | 1 mm         |
| Calculation data  |              |
| SKF performance class   | SKF Explorer |
| Basic dynamic load rating                                     | 23.4 kN      |
| Basic static load rating                                      | 18.6 kN      |
| Fatigue load limit  | 1.83 kN      |
| Reference speed   | 15000 r/min  |
| Limiting speed  | 18000 r/min  |
| Limiting value  | 0.35         |
| Calculation factor  | 1.7          |
| Calculation factor  | 0.9          |
| Performance   |              |
| Basic dynamic load rating                                     | 23.4 kN      |
| Basic static load rating                                      | 18.6 kN      |
| Reference speed   | 15000 r/min  |
| Limiting speed  | 18000 r/min  |
| SKF performance class   | SKF Explorer |
| Properties  |              |

|   |                           |
|---|---------------------------|
| Bearing part                                      | Complete bearing          |
| Number of rows                                    | 1                         |
| Locating feature, bearing outer ring              | Without                   |
| Bore type   | Cylindrical               |
| Cage  | Sheet metal               |
| Arrangement of contact angle (double-row bearing) | Not applicable            |
| Matched arrangement                               | No                        |
| Coating   | Without                   |
| Sealing   | Without                   |
| Lubricant   | None                      |
| Relubrication feature                             | Without                   |
| Unit system                                       | Metric                    |
| Indicative carbon footprint for new product       | 0.28 kg CO <sub>2</sub> e |

| <b>Logistics</b>   |             |
|--------------------|-------------|
| Product net weight | 0.0774 kg   |
| eClass code        | 23-05-09-10 |
| UNSPSC code        | 31171516    |

SKF drawings

