



Image may differ from product. See technical specification for details.

## BS2-2208-2RSK/VT143

**Spherical roller bearing with tapered bore, integral sealing and relubrication features**

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. Under normal operating conditions, sealed bearings are almost

maintenance-free, keeping service costs and grease consumption low. The design includes features to facilitate relubrication.

- Accommodate misalignment
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

## Overview

### Dimensions

|                  |       |
|------------------|-------|
| Bore diameter    | 40 mm |
| Outside diameter | 80 mm |
| Width            | 28 mm |

### Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 98.5 kN      |
| Basic static load rating  | 91.5 kN      |
| Limiting speed            | 4 000 r/min  |
| SKF performance class     | SKF Explorer |

### Properties

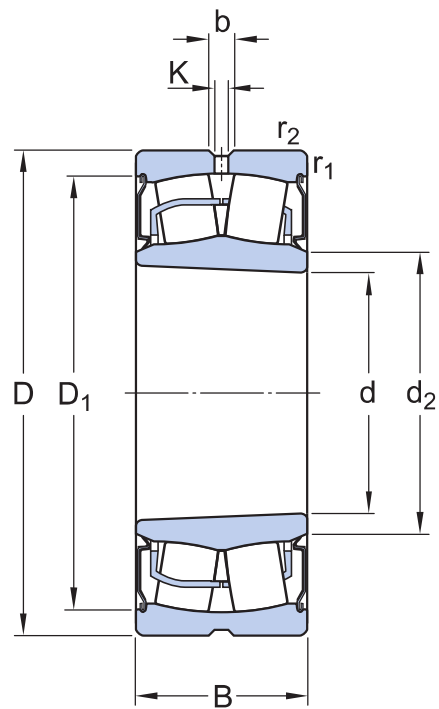
|                                      |                    |
|--------------------------------------|--------------------|
| Number of rows                       | 2                  |
| Locating feature, bearing outer ring | Without            |
| Bore type                            | Tapered 1:12       |
| Cage                                 | Sheet metal        |
| Radial internal clearance            | CN                 |
| Tolerance class for dimensions       | Normal             |
| Tolerance class for run-out          | P5                 |
| Sealing                              | Seal on both sides |
| Sealing type                         | Contact            |
| Lubricant                            | Grease             |
| Relubrication feature                | With               |

### Logistics

|                    |             |
|--------------------|-------------|
| Product net weight | 0.592 kg    |
| eClass code        | 23-05-09-11 |
| UNSPSC code        | 31171510    |

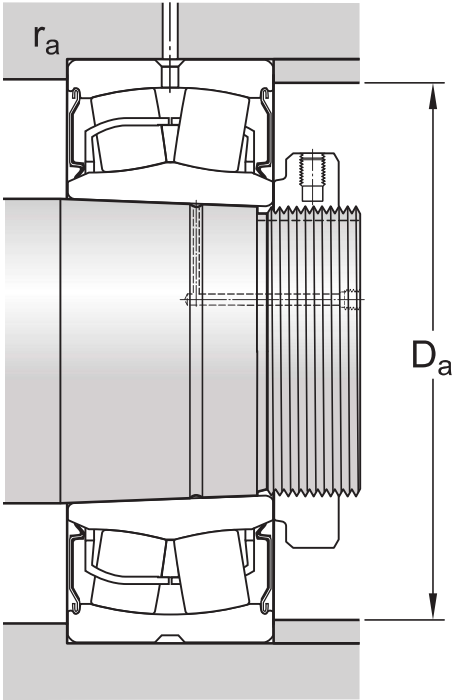
Technical specification

|           |              |
|-----------|--------------|
| Bore type | Tapered 1:12 |
|-----------|--------------|



Dimensions

|                  |             |                                        |
|------------------|-------------|----------------------------------------|
| d                | 40 mm       | Bore diameter                          |
| D                | 80 mm       | Outside diameter                       |
| B                | 28 mm       | Width                                  |
| d <sub>2</sub>   | ≈ 47.2 mm   | Shoulder diameter of inner ring        |
| D <sub>1</sub>   | ≈ 72.8 mm   | Shoulder/recess diameter of outer ring |
| b                | 6 mm        | Width of lubrication groove            |
| K                | 3 mm        | Diameter of lubrication hole           |
| r <sub>1,2</sub> | min. 1.1 mm | Chamfer dimension                      |



Abutment dimensions

|       |            |                              |
|-------|------------|------------------------------|
| $D_a$ | max. 73 mm | Diameter of housing abutment |
| $r_a$ | max. 1 mm  | Radius of fillet             |

Calculation data

|                           |       |              |
|---------------------------|-------|--------------|
| SKF performance class     |       | SKF Explorer |
| Basic dynamic load rating | C     | 98.5 kN      |
| Basic static load rating  | $C_0$ | 91.5 kN      |
| Fatigue load limit        | $P_u$ | 10 kN        |
| Limiting speed            |       | 4 000 r/min  |
| Limiting value            | e     | 0.28         |
| Calculation factor        | $Y_1$ | 2.4          |
| Calculation factor        | $Y_2$ | 3.6          |
| Calculation factor        | $Y_0$ | 2.5          |

Mounting information

|                                           |          |       |
|-------------------------------------------|----------|-------|
| Recommended tightening angle for lock nut | $\alpha$ | 115 ° |
|-------------------------------------------|----------|-------|

Tolerance class

|                        |        |
|------------------------|--------|
| Dimensional tolerances | Normal |
| Radial run-out         | P5     |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

## BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

## Compatible products

### Recommended product

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Adapter sleeve with KMFE lock nut, metric dimensions

[H 2308 E](#)

More Information

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <div> <b>Product details</b></div> <div><div><a href="#">Designs and variants</a></div><div><a href="#">General bearing specifications</a></div><div><a href="#">Loads</a></div><div><a href="#">Temperature limits</a></div><div><a href="#">Permissible speed</a></div><div><a href="#">Design considerations</a></div><div><a href="#">Mounting</a></div><div><a href="#">Designation system</a></div></div> | <div> <b>Engineering information</b></div> <div><div><a href="#">Principles of rolling bearing selection</a></div><div><a href="#">General bearing knowledge</a></div><div><a href="#">Bearing selection process</a></div><div><a href="#">Bearing failure and how to prevent it</a></div></div> | <div> <b>Tools</b></div> <div><div><a href="#">SimPro Quick</a></div><div><a href="#">SKF Product select - Select and evaluate bearing</a></div><div><a href="#">SKF Product select - Combine housing with bearing</a></div><div><a href="#">LubeSelect for SKF greases</a></div><div><a href="#">Drive-up Method Program</a></div><div><a href="#">Heater selection tool</a></div><div><a href="#">Oil Injection Method Program</a></div><div><a href="#">Tool and Accessory Selector for sleeves and shafts</a></div></div> |
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