



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

## 29348 E

### Spherical roller thrust bearing with stamped steel cage

Spherical roller thrust bearings accommodate very heavy axial and considerable radial loads. They have the highest load rating of all thrust bearings, enabling compact, high power density bearing arrangements. By combining two or more spherical roller thrust

bearings, it is possible to create a bearing arrangement that is either self-aligning, allowing misalignment of the shaft, or very stiff.

- High load carrying capacity
- Can accommodate combined loads
- Allow misalignment or create very stiff bearing arrangements
- Long service life and low friction
- Separable design

Overview

Dimensions

|                  |        |
|------------------|--------|
| Bore diameter    | 240 mm |
| Outside diameter | 380 mm |
| Height           | 85 mm  |

Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 2 040 kN     |
| Basic static load rating  | 6 550 kN     |
| Reference speed           | 1 000 r/min  |
| Limiting speed            | 1 600 r/min  |
| SKF performance class     | SKF Explorer |

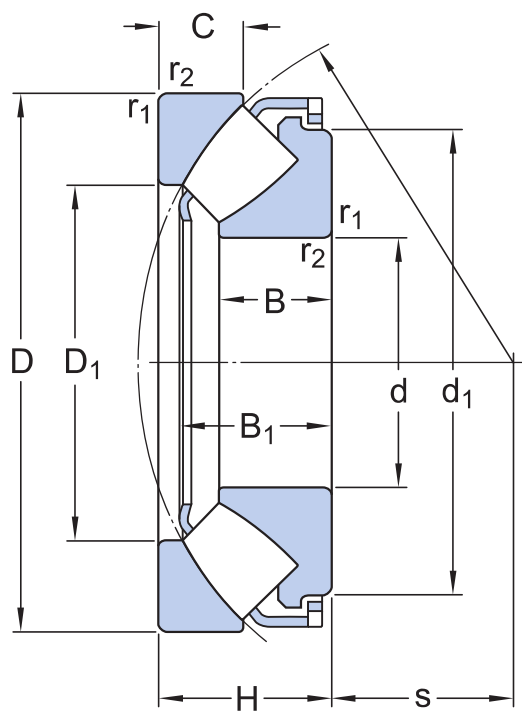
Properties

|                                  |             |
|----------------------------------|-------------|
| Locating feature, housing washer | None        |
| Bore type                        | Cylindrical |
| Cage                             | Sheet metal |
| Tolerance class                  | Normal      |

Logistics

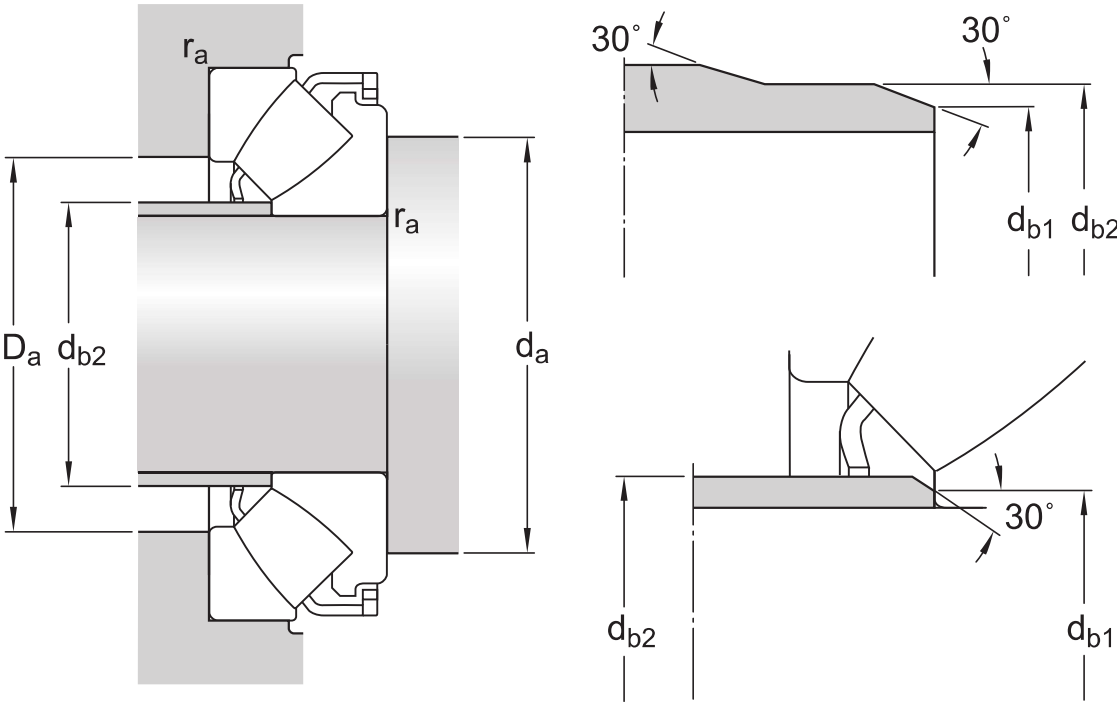
|                    |             |
|--------------------|-------------|
| Product net weight | 33.6 kg     |
| eClass code        | 23-05-11-03 |
| UNSPSC code        | 31171507    |

Technical specification



Dimensions

|                  |           |                                                                                                                    |
|------------------|-----------|--------------------------------------------------------------------------------------------------------------------|
| d                | 240 mm    | Bore diameter                                                                                                      |
| D                | 380 mm    | Outside diameter                                                                                                   |
| H                | 85 mm     | Height                                                                                                             |
| d <sub>1</sub>   | ≈ 345 mm  | Outside diameter of shaft washer end side face                                                                     |
| D <sub>1</sub>   | ≈ 296 mm  | Shoulder diameter outer ring                                                                                       |
| B                | 54 mm     | Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage) |
| B <sub>1</sub>   | 77.8 mm   | Height shaft washer + cage                                                                                         |
| C                | 40.5 mm   | Height housing washer                                                                                              |
| s                | 135 mm    | Distance from shaft washer end side face to pressure point                                                         |
| r <sub>1,2</sub> | min. 4 mm | Chamfer dimension shaft washer                                                                                     |



Abutment dimensions

|          |             |                                  |
|----------|-------------|----------------------------------|
| $d_a$    | min. 305 mm | Diameter of shaft abutment       |
| $d_{b1}$ | max. 249 mm | Abutment diameter of spacer ring |
| $d_{b2}$ | max. 259 mm | Outside diameter of spacer ring  |
| $D_a$    | max. 336 mm | Diameter of housing abutment     |
| $r_a$    | max. 3 mm   | Fillet radius                    |

Calculation data

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 2 040 kN    |
| Basic static load rating  | $C_0$ | 6 550 kN    |
| Fatigue load limit        | $P_u$ | 630 kN      |
| Reference speed           |       | 1 000 r/min |
| Limiting speed            |       | 1 600 r/min |
| Minimum axial load factor | A     | 4.1         |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: [table](#)

## BEARING INTERFACES

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

More Information

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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="#">Lubrication</a></div><div><a href="#">Mounting</a></div><div><a href="#">Designation system</a></div></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> | <div><div> <b>Tools</b></div><div><div><a href="#">SimPro Quick</a></div><div><a href="#">SKF Product select</a></div><div><a href="#">Bearing Frequency Calculator</a></div><div><a href="#">LubeSelect for SKF greases</a></div><div><a href="#">Heater selection tool</a></div></div></div> |
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