

# 51201

## 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.

- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enable interference fit

## Overview

### Dimensions

|                  |       |
|------------------|-------|
| Bore diameter    | 12 mm |
| Outside diameter | 28 mm |
| Thickness        | 11 mm |

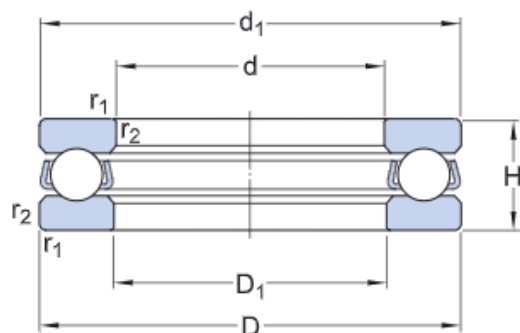
### Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 13.3 kN      |
| Basic static load rating  | 20.8 kN      |
| Limiting speed            | 11 000 r/min |
| Reference speed           | 8 000 r/min  |

### Properties

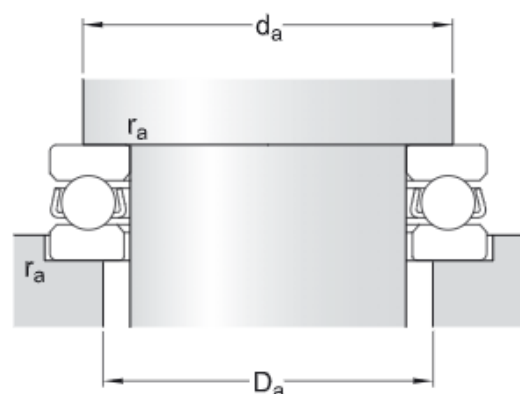
|                       |                  |
|-----------------------|------------------|
| Axial load capability | Single-direction |
| Cage                  | Sheet metal      |
| Coating               | Without          |
| Housing washer type   | Flat             |
| Material, bearing     | Bearing steel    |
| Number of rows        | 1                |
| Tolerance class       | Normal           |

# Technical Specification



## Dimensions

|           |                 |                               |
|-----------|-----------------|-------------------------------|
| d         | 12 mm           | Bore diameter                 |
| D         | 28 mm           | Outside diameter              |
| H         | 11 mm           | Height                        |
| $d_1$     | $\approx 28$ mm | Outside diameter shaft washer |
| $D_1$     | $\approx 14$ mm | Inner diameter housing washer |
| $r_{1,2}$ | min. 0.6 mm     | Chamfer dimension washer      |



## Abutment dimensions

|       |             |                           |
|-------|-------------|---------------------------|
| $d_a$ | min. 22 mm  | Abutment diameter shaft   |
| $D_a$ | max. 18 mm  | Abutment diameter housing |
| $r_a$ | max. 0.6 mm | Fillet radius             |

## Calculation data

|                           |       |              |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C     | 13.3 kN      |
| Basic static load rating  | $C_0$ | 20.8 kN      |
| Fatigue load limit        | $P_u$ | 0.765 kN     |
| Reference speed           |       | 8 000 r/min  |
| Limiting speed            |       | 11 000 r/min |
| Minimum load factor       | A     | 0.0022       |

## Mass

|                                                       |
|-------------------------------------------------------|
| Mass bearing (including seat washer where applicable) |
|-------------------------------------------------------|

|          |
|----------|
| 0.034 kg |
|----------|

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