

# 52411 Double direction thrust ball bearing

## bearing

### Double direction thrust ball bearing

Double direction thrust ball bearings can accommodate axial loads in both directions, but they must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections, and 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 the shaft washers enables interference fits

## Overview

### Dimensions

|                  |        |
|------------------|--------|
| Bore diameter    | 45 mm  |
| Outside diameter | 120 mm |
| Height           | 87 mm  |

### Performance

|                           |             |
|---------------------------|-------------|
| Basic dynamic load rating | 195 kN      |
| Basic static load rating  | 400 kN      |
| Reference speed           | 1 300 r/min |
| Limiting speed            | 1 800 r/min |

### Properties

|                       |                  |
|-----------------------|------------------|
| Axial load capability | Double-direction |
| Number of rows        | 2                |
| Cage                  | Sheet metal      |
| Housing washer type   | Flat             |
| Tolerance class       | Normal           |
| Material, bearing     | Bearing steel    |
| Coating               | Without          |

# Technical Specification



## Dimensions

|           |             |                                  |
|-----------|-------------|----------------------------------|
| d         | 45 mm       | Bore diameter                    |
| D         | 120 mm      | Outside diameter                 |
| H         | 87 mm       | Height                           |
| $D_1$     | ≈ 57 mm     | Inner diameter housing washer    |
| B         | 20 mm       | Height shaft washer              |
| $r_{1,2}$ | min. 1.5 mm | Chamfer dimension housing washer |
| $r_{3,4}$ | min. 0.6 mm | Chamfer dimension shaft washer   |

## Abutment dimensions

|       |             |                           |
|-------|-------------|---------------------------|
| $d_a$ | 55 mm       | Abutment diameter shaft   |
| $D_a$ | max. 81 mm  | Abutment diameter housing |
| $r_a$ | max. 1.5 mm | Fillet radius housing     |
| $r_b$ | max. 0.6 mm | Fillet radius shaft       |



## Calculation data

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 195 kN      |
| Basic static load rating  | $C_0$ | 400 kN      |
| Fatigue load limit        | $P_u$ | 14.6 kN     |
| Reference speed           |       | 1 300 r/min |
| Limiting speed            |       | 1 800 r/min |
| Minimum load factor       | A     | 0.79        |

## Mass

Mass bearing (including seat washer where applicable)

4.7 kg

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