

52309 Double direction thrust ball 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	35 mm
Outside diameter	85 mm
Height	52 mm

Performance

Basic dynamic load rating	76.1 kN
Basic static load rating	153 kN
Reference speed	2 000 r/min
Limiting speed	2 800 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	35 mm	Bore diameter
D	85 mm	Outside diameter
H	52 mm	Height
D_1	≈ 47 mm	Inner diameter housing washer
B	12 mm	Height shaft washer
$r_{1,2}$	min. 1 mm	Chamfer dimension housing washer
$r_{3,4}$	min. 0.6 mm	Chamfer dimension shaft washer

Abutment dimensions

d_a	46 mm	Abutment diameter shaft
D_a	max. 61 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius housing
r_b	max. 0.6 mm	Fillet radius shaft



Calculation data

Basic dynamic load rating	C	76.1 kN
Basic static load rating	C_0	153 kN
Fatigue load limit	P_u	5.6 kN
Reference speed		2 000 r/min
Limiting speed		2 800 r/min
Minimum load factor	A	0.12

Mass

Mass bearing (including seat washer where applicable)

1.25 kg

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