

51240 M Single direction thrust ball bearing

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	200 mm
Outside diameter	280 mm
Height	62 mm

Performance

Basic dynamic load rating	332 kN
Basic static load rating	1 250 kN
Reference speed	1 000 r/min
Limiting speed	1 400 r/min

Properties

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

Technical Specification



Dimensions

d	200 mm	Bore diameter
D	280 mm	Outside diameter
H	62 mm	Height
d_1	≈ 275 mm	Outside diameter shaft washer
D_1	≈ 204 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer

Abutment dimensions

d_a	min. 248 mm	Abutment diameter shaft
D_a	max. 232 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	332 kN
Basic static load rating	C_0	1 250 kN
Fatigue load limit	P_u	30 kN
Reference speed		1 000 r/min
Limiting speed		1 400 r/min
Minimum load factor	A	9.1

Mass

Mass bearing (including seat washer where applicable)

12 kg

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