

# 61940 MA Deep groove ball bearing



## Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

## Overview

### Dimensions

Bore diameter	200 mm
Outside diameter	280 mm
Width	38 mm

### Performance

Basic dynamic load rating	148 kN
Basic static load rating	166 kN
Reference speed	4 800 r/min
Limiting speed	3 800 r/min

### Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

# Technical Specification



## Dimensions

d	200 mm	Bore diameter
D	280 mm	Outside diameter
B	38 mm	Width
$d_1$	≈ 225.7 mm	Shoulder diameter
$D_1$	≈ 255.2 mm	Shoulder diameter
$r_{1,2}$	min. 2.1 mm	Chamfer dimension

## Abutment dimensions

$d_a$	min. 210 mm	Diameter of shaft abutment
$D_a$	max. 270 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of shaft or housing fillet



## Calculation data

Basic dynamic load rating	C	148 kN
Basic static load rating	$C_0$	166 kN
Fatigue load limit	$P_u$	4.55 kN
Reference speed		4 800 r/min
Limiting speed		3 800 r/min
Minimum load factor	$k_r$	0.02
Calculation factor	$f_0$	16.4

## Mass

Mass bearing	7.32 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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