



Image may differ from product. See technical specification for details.

## 61868 MA

### 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	340 mm
Outside diameter	420 mm
Width	38 mm

## Performance

Basic dynamic load rating	178 kN
Basic static load rating	275 kN
Reference speed	2 800 r/min
Limiting speed	2 400 r/min

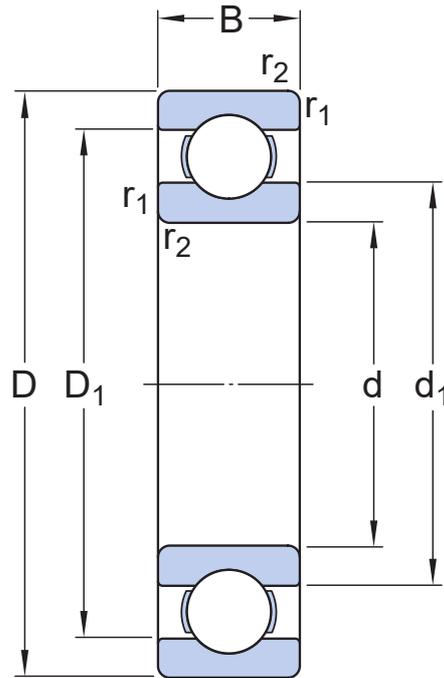
## Properties

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
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Candidate for remanufacturing	Yes

## Logistics

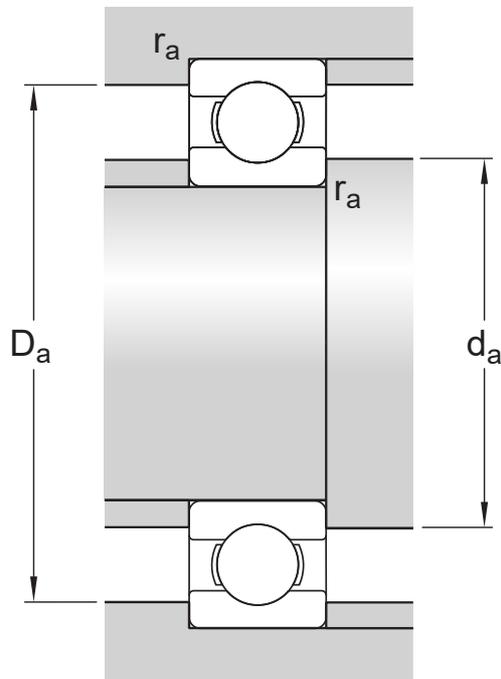
Product net weight	11.3 kg
eClass code	23-05-08-01
UNSPSC code	31171504

## Technical specification



## Dimensions

d	340 mm	Bore diameter
t <sub>Δdmp</sub>	-0.04 – 0 mm	Deviation limits of mid-range bore diameter
D	420 mm	Outside diameter
t <sub>ΔDmp</sub>	-0.045 – 0 mm	Deviation limits of mid-range outside diameter
B	38 mm	Width
t <sub>ΔBs</sub>	-0.4 – 0 mm	Deviation limits of ring width
d <sub>1</sub>	≈ 365.7 mm	Shoulder diameter
D <sub>1</sub>	≈ 395.2 mm	Shoulder diameter
r <sub>1,2</sub>	min. 2.1 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions



## Abutment dimensions

$d_a$	min. 352 mm	Diameter of shaft abutment
$D_a$	max. 408 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	178 kN
Basic static load rating	$C_0$	275 kN
Fatigue load limit	$P_u$	6 kN
Reference speed		2 800 r/min
Limiting speed		2 400 r/min
Minimum load factor	$k_r$	0.015
Calculation factor	$f_0$	17.3

## Tolerances of run-out

Range of section height at inner ring of assembled bearing	$t_{kia}$	60 $\mu\text{m}$
Range of section height at outer ring of assembled bearing	$t_{kea}$	80 $\mu\text{m}$
ISO tolerance class for geometrical tolerances		Normal

## Tolerances and clearances

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### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

## BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

## More Information

### Product details

[Single row deep groove ball bearings](#)

[Stainless steel deep groove ball bearings](#)

[Single row deep groove ball bearings with filling slots](#)

[Double row deep groove ball bearings](#)

[General bearing specifications](#)

[Loads](#)

[Temperature limits](#)

[Permissible speed](#)

[Designation system](#)

### Engineering information

[Principles of rolling bearing selection](#)

[General bearing knowledge](#)

[Bearing selection process](#)

[Bearing interfaces](#)

[Seat tolerances for standard conditions](#)

[Selecting internal clearance](#)

[Lubrication](#)

[Sealing, mounting and dismounting](#)

[Bearing failure and how to prevent it](#)

### Tools

[SKF Product select](#)

[SimPro Quick](#)

[Bearing Frequency Calculator](#)

[LubeSelect for SKF greases](#)

[Heater selection tool](#)

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