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

61976 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	380 mm
Outside diameter	520 mm
Width	65 mm

Performance

Basic dynamic load rating	338 kN
Basic static load rating	540 kN
Reference speed	2 400 r/min
Limiting speed	1 900 r/min

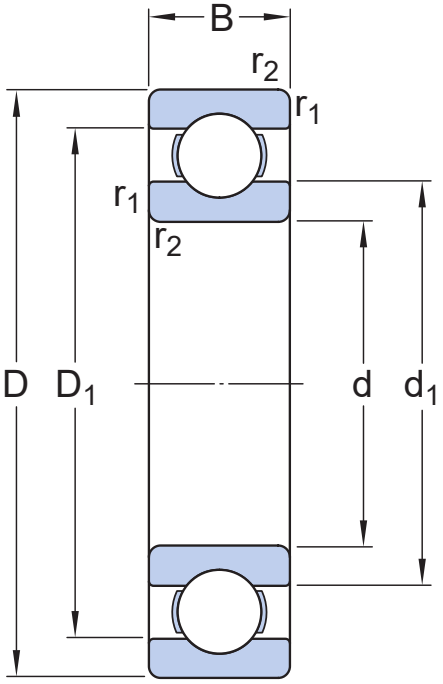
Properties

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

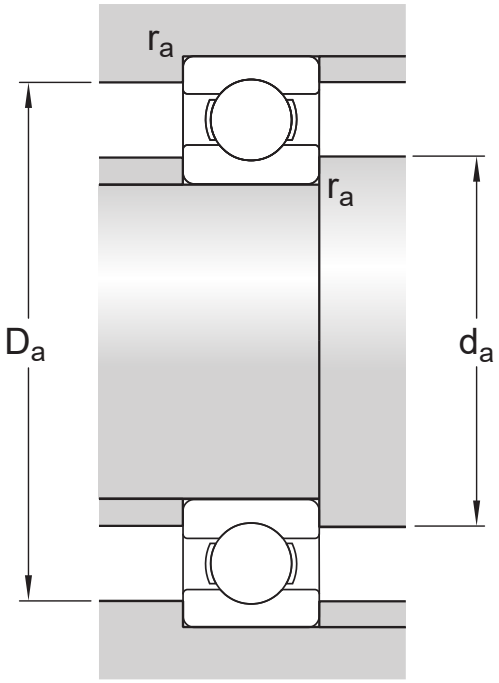
Product net weight	39.9 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	380 mm	Bore diameter
$t_{\Delta dmp}$	-0.04 – 0 mm	Deviation limits of mid-range bore diameter
D	520 mm	Outside diameter
$t_{\Delta Dmp}$	-0.05 – 0 mm	Deviation limits of mid-range outside diameter
B	65 mm	Width
$t_{\Delta Bs}$	-0.4 – 0 mm	Deviation limits of ring width
d_1	≈ 425.1 mm	Shoulder diameter
D_1	≈ 475.46 mm	Shoulder diameter
$r_{1,2}$	min. 4 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 395 mm	Diameter of shaft abutment
D_a	max. 505 mm	Diameter of housing abutment
r_a	max. 3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	338 kN
Basic static load rating	C_0	540 kN
Fatigue load limit	P_u	10.8 kN
Reference speed		2 400 r/min
Limiting speed		1 900 r/min
Minimum load factor	k_r	0.02
Calculation factor	f_0	16.6

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	60 µm
Range of section height at outer ring of assembled bearing	t_{Kea}	100 µm
ISO tolerance class for geometrical tolerances		Normal

Tolerances and clearances

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

Terms of use

By accessing and using this website / app owned and published by AB SKF (publ.) (556007-3495 · Gothenburg) (“SKF”), you agree to the following terms and conditions:

Warranty Disclaimer and Limitation of Liability

Although every care has been taken to assure the accuracy of the information on this website / app, SKF provides this information "AS IS" and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. You acknowledge that your use of this website / app is at your sole risk, that you assume full responsibility for all costs associated with use of this website / app, and that SKF shall not be liable for any direct, incidental, consequential, or indirect damages of any kind arising out of your access to, or use of the information or software made available on this website / app.

Any warranties and representations in this website / app for SKF products or services that you purchase or use will be subject to the agreed upon terms and conditions in the contract for such product or service.

Further, for non-SKF websites / apps that are referenced in our website / app or where a hyperlink appears, SKF makes no warranties concerning the accuracy or reliability of the information in these websites / apps and assumes no responsibility for material created or published by third parties contained therein. In addition, SKF does not warrant that this website / app or these other linked websites / apps are free from viruses or other harmful elements.

Third Party Services

When viewing YouTube content via the SKF website(s) (i.e. using YouTube API Services), you agree to be bound by the YouTube Terms of Service.

Copyright

Trademarks and Patents

Changes

SKF reserves the right to make changes or additions to this website / app at any time.