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

618/600 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	600 mm
Outside diameter	730 mm
Width	60 mm

Performance

Basic dynamic load rating	364 kN
Basic static load rating	765 kN
Reference speed	1 500 r/min
Limiting speed	1 200 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	53.8 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification

Dimensions

d	600 mm	Bore diameter
D	730 mm	Outside diameter
B	60 mm	Width
d_1	≈ 642.1 mm	Shoulder diameter
D_1	≈ 687.52 mm	Shoulder diameter
$r_{1,2}$	min. 3 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions

Abutment dimensions

d_a	min. 613 mm	Diameter of shaft abutment
D_a	max. 717 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	364 kN
Basic static load rating	C_0	765 kN
Fatigue load limit	P_u	12.5 kN
Reference speed		1 500 r/min
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.015
Calculation factor	f_0	17.5

Tolerances of run-out

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

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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