

ARTISAN®
TECHNOLOGY GROUP

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

6319

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	95 mm
Outside diameter	200 mm
Width	45 mm

Performance

Basic dynamic load rating	159 kN
Basic static load rating	118 kN
Reference speed	7 000 r/min
Limiting speed	4 500 r/min
SKF performance class	SKF Explorer

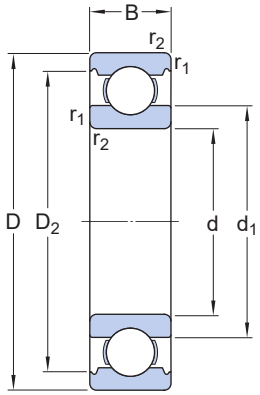
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	20.3 kg CO_2e

Logistics

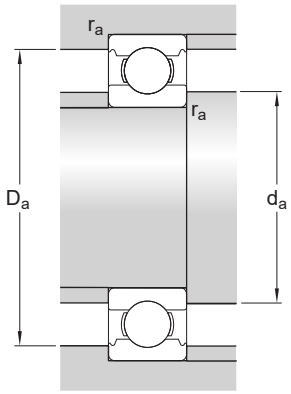
Product net weight	5.65 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	95 mm	Bore diameter
$t_{\Delta dmp}$	-0.015 – 0 mm	Deviation limits of mid-range bore diameter
D	200 mm	Outside diameter
$t_{\Delta Dmp}$	-0.02 – 0 mm	Deviation limits of mid-range outside diameter
B	45 mm	Width
$t_{\Delta Bs}$	-0.1 – 0 mm	Deviation limits of ring width
d_1	≈ 127.7 mm	Shoulder diameter
D_2	≈ 171.9 mm	Recess diameter
$r_{1,2}$	min. 3 mm	Chamfer dimension
	P6 and tighter width tolerance	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 109 mm	Diameter of shaft abutment
D_a	max. 186 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	159 kN
Basic static load rating	C_0	118 kN
Fatigue load limit	P_u	4.15 kN
Reference speed		7 000 r/min
Limiting speed		4 500 r/min
Minimum load factor	k_r	0.03
Calculation factor	f_0	13.3

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	25 µm
Range of section height at outer ring of assembled bearing	t_{Kea}	50 µm
ISO tolerance class for geometrical tolerances		Normal

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

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