

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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Image may differ from product. See technical specification for details.

6412

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	60 mm
Outside diameter	150 mm
Width	35 mm

Performance

Basic dynamic load rating	108 kN
Basic static load rating	69.5 kN
Reference speed	10 000 r/min
Limiting speed	6 300 r/min

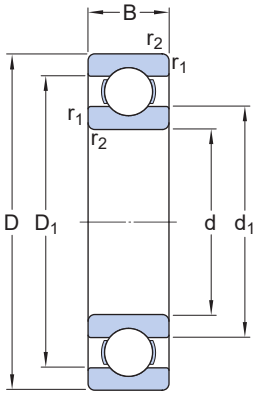
Properties

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	10 kg CO_2e

Logistics

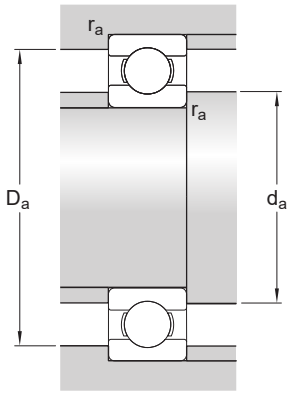
Product net weight	2.77 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	60 mm	Bore diameter
$t_{\Delta dmp}$	-0.015 – 0 mm	Deviation limits of mid-range bore diameter
D	150 mm	Outside diameter
$t_{\Delta Dmp}$	-0.018 – 0 mm	Deviation limits of mid-range outside diameter
B	35 mm	Width
$t_{\Delta Bs}$	-0.15 – 0 mm	Deviation limits of ring width
d_1	≈ 88.16 mm	Shoulder diameter
D_1	≈ 121.55 mm	Shoulder diameter
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 74 mm	Diameter of shaft abutment
D_a	max. 136 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	108 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	2.9 kN
Reference speed		10 000 r/min
Limiting speed		6 300 r/min
Minimum load factor	k_r	0.04
Calculation factor	f_0	12.3

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	20 µm
Range of section height at outer ring of assembled bearing	t_{Kea}	40 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

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