

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

61916-2RZ

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields 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. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. Also available on request with special sized bore and/or outside diameters, suitable for reworked shafts and housings.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	110 mm
Width	16 mm

Performance

Basic dynamic load rating	25.1 kN
Basic static load rating	20.4 kN
Reference speed	12 000 r/min
Limiting speed	6 000 r/min

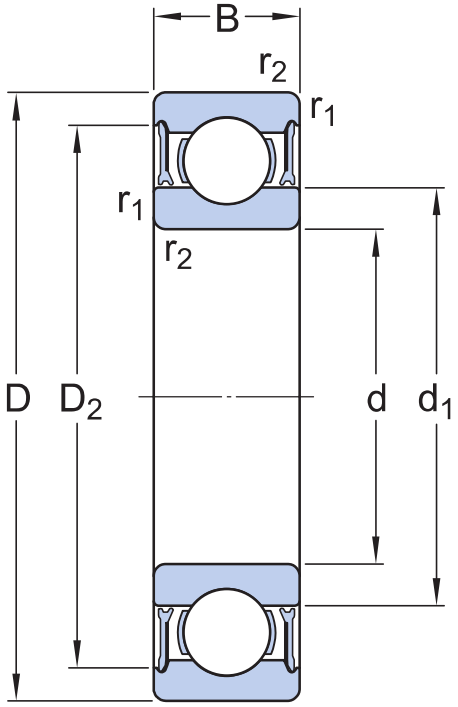
Properties

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	Seal on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	1.4 kg CO_2e

Logistics

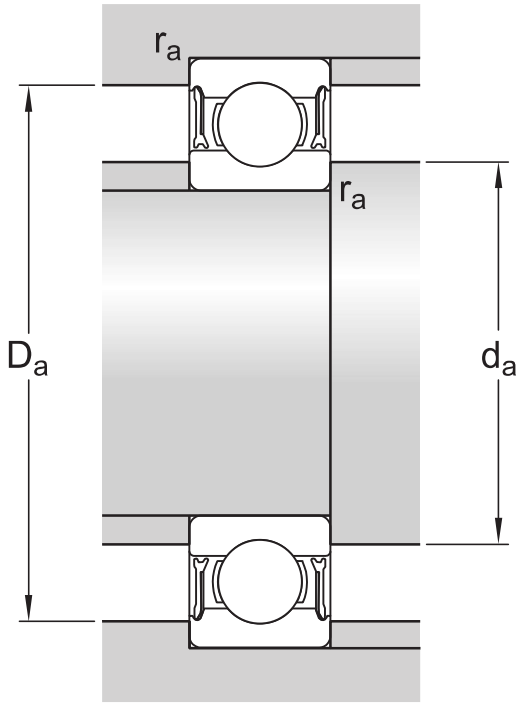
Product net weight	0.388 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	80 mm	Bore diameter
$t_{\Delta dmp}$	-0.015 – 0 mm	Deviation limits of mid-range bore diameter
D	110 mm	Outside diameter
$t_{\Delta Dmp}$	-0.015 – 0 mm	Deviation limits of mid-range outside diameter
B	16 mm	Width
$t_{\Delta Bs}$	-0.15 – 0 mm	Deviation limits of ring width
d_1	≈ 89.8 mm	Shoulder diameter
D_2	≈ 102.2 mm	Recess diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 84.6 mm	Diameter of shaft abutment
d_a	max. 89.7 mm	Diameter of shaft abutment
D_a	max. 105 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	25.1 kN
Basic static load rating	C_0	20.4 kN
Fatigue load limit	P_u	1.02 kN
Reference speed		12 000 r/min
Limiting speed		6 000 r/min
Minimum load factor	k_r	0.02
Calculation factor	f_0	14

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}	35 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

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