

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

6201-2Z/VA201

Deep groove ball bearing for high temperature applications with shields on both sides

Single row deep groove ball bearings for high temperature applications, with shields on both sides, are designed for challenging operating conditions, with certain variants being capable of performing at temperatures as high as 350 °C (660 °F). They have larger radial internal clearances and use graphite-based lubricants that enable operation at high temperatures. They are lubricated for the life of the bearing and the entire surface of the bearings and shields are manganese phosphate treated, which enhances adhesion of the lubricant to the metal and improves their running-in properties. As with deep groove ball bearings generally, they are particularly versatile, accommodate radial and axial loads in both directions, and are easy to mount. Also available on request with special sized bore and/or outside diameters, suitable for reworked shafts and housings.

- Optimized for operation at high temperatures – up to 350 °C (660 °F)
- Easily swapped with grease-lubricated bearings of corresponding ISO dimensions
- Increased reliability, reduced complexity and decreased environmental impact
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	12 mm
Outside diameter	32 mm
Width	10 mm

Performance

Basic static load rating	3.1 kN
Limiting speed	200 r/min
Maximum operating temperature	250 °C

Properties

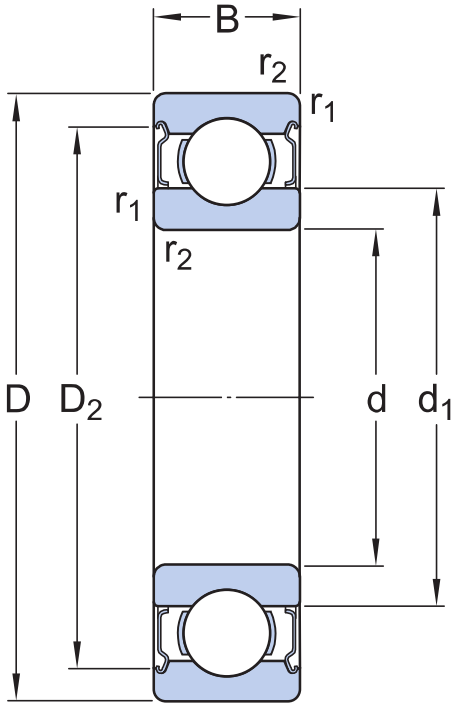
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	Multiples of C5
Material, bearing	High temperature steel
Coating	Coated
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Solid lubricant
Relubrication feature	Without
Indicative carbon footprint for new product	0.14 kg CO_2e

Logistics

Product net weight	0.0375 kg
eClass code	23-05-90-90
UNSPSC code	31171504

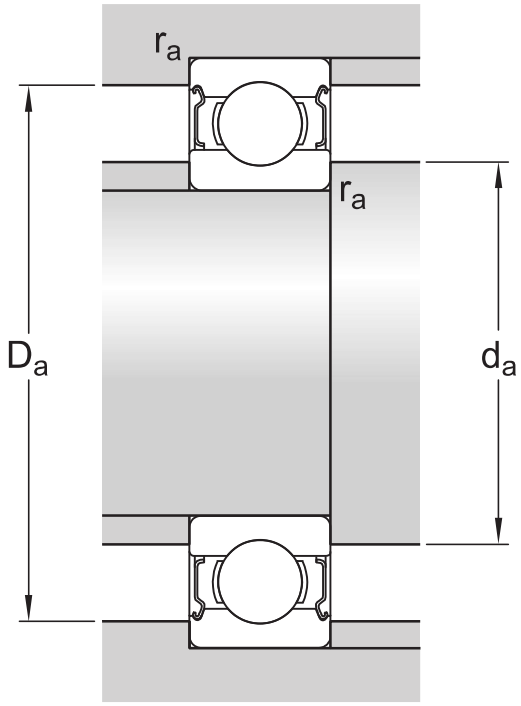
Technical specification

Running in required	Yes



Dimensions

d	12 mm	Bore diameter
D	32 mm	Outside diameter
B	10 mm	Width
d_1	≈ 18.45 mm	Shoulder diameter inner ring
D_2	≈ 27.34 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 16.2 mm	Abutment diameter shaft
d_a	max. 18.4 mm	Abutment diameter shaft
D_a	max. 27.8 mm	Abutment diameter housing
r_a	max. 0.6 mm	Fillet radius

Calculation data

Basic static load rating	C_0	3.1 kN
Limiting speed		200 r/min
Operating temperature	T	max. 250 °C

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

Compatible products

Mounting tool

Bearing fitting tool kit	TMFT 36
Bearing fitting tool kit, PRO version	TMFT 36/PRO

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