



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

## W 61804-2Z

### Stainless steel deep groove ball bearing with integral sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they 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 other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

# Overview

## Dimensions

Bore diameter	20 mm
Outside diameter	32 mm
Width	7 mm

## Performance

Basic dynamic load rating	3.12 kN
Basic static load rating	2.08 kN
Reference speed	48 000 r/min
Limiting speed	24 000 r/min

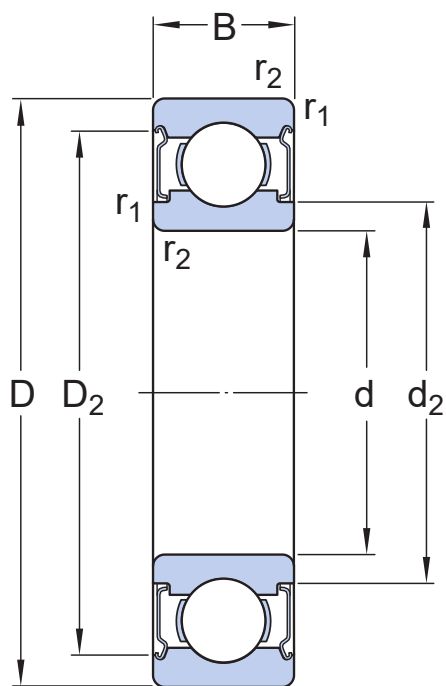
## Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Stainless steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

## Logistics

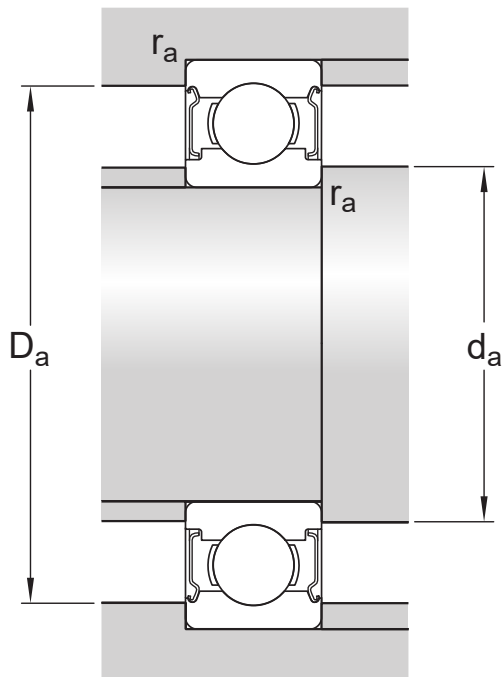
Product net weight	0.0167 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	20 mm	Bore diameter
D	32 mm	Outside diameter
B	7 mm	Width
d <sub>2</sub>	≈ 22.6 mm	Recess diameter
D <sub>2</sub>	≈ 29.52 mm	Recess diameter
r <sub>1,2</sub>	min. 0.3 mm	Chamfer dimension



## Abutment dimensions

$d_a$	min. 22 mm	Diameter of shaft abutment
$d_a$	max. 22.5 mm	Diameter of shaft abutment
$D_a$	max. 30.5 mm	Diameter of housing abutment
$r_a$	max. 0.3 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	$C$	3.12 kN
Basic static load rating	$C_0$	2.08 kN
Fatigue load limit	$P_u$	0.09 kN
Reference speed		48 000 r/min
Limiting speed		24 000 r/min
Minimum load factor	$k_r$	0.02
Calculation factor	$f_0$	13.3

## 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

# More Information

<div> Product details</div> <div><a href="#">Single row deep groove ball bearings</a></div> <div><a href="#">Stainless steel deep groove ball bearings</a></div> <div><a href="#">Single row deep groove ball bearings with filling slots</a></div> <div><a href="#">Double row deep groove ball bearings</a></div> <div><a href="#">General bearing specifications</a></div> <div><a href="#">Loads</a></div> <div><a href="#">Temperature limits</a></div> <div><a href="#">Permissible speed</a></div> <div><a href="#">Designation system</a></div>	<div> Engineering information</div> <div><a href="#">Principles of rolling bearing selection</a></div> <div><a href="#">General bearing knowledge</a></div> <div><a href="#">Bearing selection process</a></div> <div><a href="#">Bearing interfaces</a></div> <div><a href="#">Seat tolerances for standard conditions</a></div> <div><a href="#">Selecting internal clearance</a></div> <div><a href="#">Lubrication</a></div> <div><a href="#">Sealing, mounting and dismounting</a></div> <div><a href="#">Bearing failure and how to prevent it</a></div>	<div> Tools</div> <div><a href="#">SKF Product select</a></div> <div><a href="#">SimPro Quick</a></div> <div><a href="#">Bearing Frequency Calculator</a></div> <div><a href="#">LubeSelect for SKF greases</a></div> <div><a href="#">Heater selection tool</a></div>
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