5KF



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

61904-2RS1

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.

- 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	20 mm
Outside diameter	37 mm
Width	9 mm

Performance

Basic dynamic load rating	6.37 kN
Basic static load rating	3.65 kN
Limiting speed	12 000 r/min

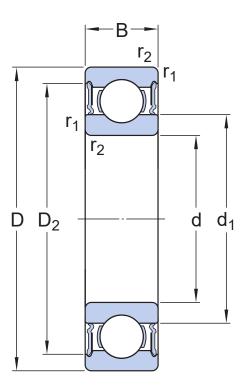
Properties

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	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without
Indicative product carbon footprint to manufacture	0.148 kg CO ₂ e

Logistics

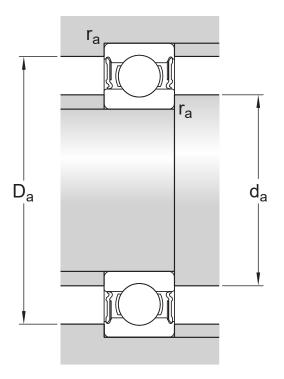
Product net weight	0.041 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	20 mm	Bore diameter
t _{∆dmp}	-0.008 – 0 mm	Deviation limits of mid-range bore diameter
D	37 mm	Outside diameter
t∆Dmp	-0.009 – 0 mm	Deviation limits of mid-range outside diameter
В	9 mm	Width
$t_{\Delta Bs}$	-0.12 – 0 mm	Deviation limits of ring width
D ₂	≈ 32.7 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension
	P6	ISO tolerance class for dimensions



Abutment dimensions

d _a	min. 22 mm	Diameter of shaft abutment
d _a	max. 23 mm	Diameter of shaft abutment
D _a	max. 35 mm	Diameter of housing abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	6.37 kN
Basic static load rating	C ₀	3.65 kN
Fatigue load limit	Pu	0.156 kN
Limiting speed		12 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	14.7

Tolerances of run-out

assembled bearing t _{Kia} 8 µm	Range of section height at inner ring of assembled bearing	t _{Kia}	8 µm
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Range of section height at outer ring of assembled bearing	t _{Kea}	10 µm
ISO tolerance class for geometrical tolerances		P6

Tolerances and clearances

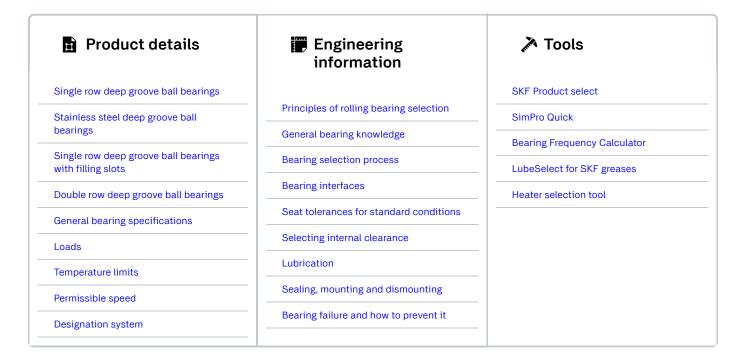
GENERAL BEARING SPECIFICATIONS

- 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





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