



SKF 6303-2RSH

Deep groove ball bearing with seals

Single row deep groove ball bearings with seals on one or both sides 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.

Technical specifications

Dimensions	
Bore diameter	17 mm
Deviation limits of mid-range bore diameter	-0.007..0 mm
Outside diameter	47 mm
Deviation limits of mid-range outside diameter	-0.009..0 mm
Width	14 mm
Deviation limits of ring width	-0.06..0 mm
Recess diameter	23.4 mm
Recess diameter	39.58 mm
Chamfer dimension	1 mm
ISO tolerance class for dimensions	P6 and tighter width tolerance

Abutment dimensions	
Diameter of shaft abutment	22.6 mm
Diameter of shaft abutment	23.5 mm
Diameter of housing abutment	41.4 mm
Radius of shaft or housing fillet	1 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	14.3 kN
Basic static load rating	6.55 kN
Fatigue load limit	0.275 kN
Limiting speed	11000 r/min
Minimum load factor	0.03
Calculation factor	12

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	4 µm
Maximum run-out of inner ring side face to the bore	7 µm
Maximum axial run-out of inner ring of assembled bearing	7 µm
Range of section height at outer ring of assembled bearing	7 µm
Perpendicularity of outer ring outside surface	4 µm
Maximum axial run-out of outer ring of assembled bearing	8 µm
ISO tolerance class for geometrical tolerances	P5

Performance	
Basic dynamic load rating	14.3 kN
Basic static load rating	6.55 kN
Limiting speed	11000 r/min
SKF performance class	SKF Explorer

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	Contact
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	0.4 kg CO ₂ e

Logistics	
Product net weight	0.112 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings