



SKF 6310-Z

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.

Technical specifications

Dimensions	
Bore diameter	50 mm
Deviation limits of mid-range bore diameter	-0.01..0 mm
Outside diameter	110 mm
Deviation limits of mid-range outside diameter	-0.013..0 mm
Width	27 mm
Deviation limits of ring width	-0.06..0 mm
Shoulder diameter	68.76 mm
Recess diameter	95.2 mm
Chamfer dimension	2 mm
ISO tolerance class for dimensions	P6 and tighter width tolerance

Abutment dimensions	
Diameter of shaft abutment	61 mm
Diameter of shaft abutment	68.7 mm
Diameter of housing abutment	99 mm
Radius of shaft or housing fillet	2 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	65 kN
Basic static load rating	38 kN
Fatigue load limit	1.6 kN
Reference speed	13000 r/min
Limiting speed	8500 r/min
Minimum load factor	0.03
Calculation factor	13

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	10 µm
Range of section height at outer ring of assembled bearing	18 µm
ISO tolerance class for geometrical tolerances	P6

Performance	
Basic dynamic load rating	65 kN
Basic static load rating	38 kN
Reference speed	13000 r/min
Limiting speed	8500 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	Shield on one side
Sealing type	Non-contact
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	3.8 kg CO ₂ e

Logistics	
Product net weight	1.06 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings

