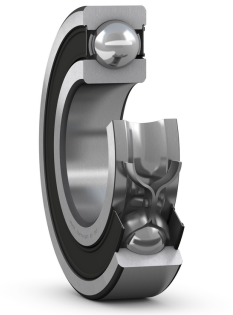

SKF 61828-2RS1

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.

Technical specifications

Dimensions	
Bore diameter	140 mm
Deviation limits of mid-range bore diameter	-0.025..0 mm
Outside diameter	175 mm
Deviation limits of mid-range outside diameter	-0.025..0 mm
Width	18 mm
Deviation limits of ring width	-0.25..0 mm
Shoulder diameter	151 mm
Recess diameter	166.7 mm
Chamfer dimension	1.1 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of shaft abutment	146 mm
Diameter of shaft abutment	150 mm
Diameter of housing abutment	169 mm
Radius of shaft or housing fillet	1 mm

Calculation data	
Basic dynamic load rating	39 kN
Basic static load rating	46.5 kN
Fatigue load limit	1.66 kN
Limiting speed	2000 r/min
Minimum load factor	0.02
Calculation factor	16

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	30 µm
Range of section height at outer ring of assembled bearing	45 µm
ISO tolerance class for geometrical tolerances	Normal

Performance	
Basic dynamic load rating	39 kN
Basic static load rating	46.5 kN
Limiting speed	2000 r/min

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	3 kg CO₂e

Logistics	
Product net weight	0.84 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings