



SKF 61816-2RS1

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	80 mm
Outside diameter	100 mm
Width	10 mm
Shoulder diameter	86.7 mm
Recess diameter	95.7 mm
Chamfer dimension	1.3 mm

Abutment dimensions	
Diameter of shaft abutment	83.2 mm
Diameter of shaft abutment	86.5 mm
Diameter of housing abutment	96.8 mm
Radius of shaft or housing fillet	0.6 mm

Calculation data	
Basic dynamic load rating	12.7 kN
Basic static load rating	11.2 kN
Fatigue load limit	0.61 kN
Limiting speed	3600 r/min
Minimum load factor	0.02
Calculation factor	13.3

Performance	
Basic dynamic load rating	12.7 kN
Basic static load rating	11.2 kN
Limiting speed	3600 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	0.57 kg CO ₂ e

Logistics	
Product net weight	0.158 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings

