

SKF W 637/8 R-2Z

Stainless steel deep groove ball bearing with flanged outer ring and integral seal

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they 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 flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

Technical specifications

Dimensions	
Bore diameter	8 mm
Outside diameter	12 mm
Width	3.5 mm
Shoulder diameter	9 mm
Recess diameter	11.31 mm
Flange diameter	13.6 mm
Flange width	0.8 mm
Chamfer dimension	0.1 mm

Abutment dimensions	
Diameter of shaft abutment	8.6 mm
Diameter of shaft abutment	8.9 mm
Radius of shaft or housing fillet	0.1 mm

Calculation data	
Basic dynamic load rating	0.312 kN
Basic static load rating	0.14 kN
Fatigue load limit	0.006 kN
Reference speed	100000 r/min
Limiting speed	53000 r/min
Minimum load factor	0.02
Calculation factor	8.2

Performance	
Basic dynamic load rating	0.312 kN
Basic static load rating	0.14 kN
Reference speed	100000 r/min
Limiting speed	53000 r/min

Properties	
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Flange
Bore type	Cylindrical
Cage	Stamped stainless steel
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Stainless steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	0.004 kg CO ₂ e

Logistics	
Product net weight	0.001 kg

eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings

