



SKF W 6003-2Z

Stainless steel deep groove ball bearing with integral sealing

Stainless steel single row deep groove ball bearing with 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 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
Outside diameter	35 mm
Width	10 mm
Shoulder diameter	23.5 mm
Recess diameter	23.5 mm
Recess diameter	31.85 mm
Chamfer dimension	0.3 mm

Abutment dimensions	
Diameter of shaft abutment	19 mm
Diameter of shaft abutment	23 mm
Diameter of housing abutment	33 mm
Radius of shaft or housing fillet	0.3 mm

Calculation data	
Basic dynamic load rating	4.94 kN
Basic static load rating	3.15 kN
Fatigue load limit	0.137 kN
Reference speed	45000 r/min
Limiting speed	22000 r/min
Minimum load factor	0.03
Calculation factor	14.1

Performance	
Basic dynamic load rating	4.94 kN
Basic static load rating	3.15 kN
Reference speed	45000 r/min
Limiting speed	22000 r/min

Properties	
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
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	0.13 kg CO ₂ e

Logistics	
Product net weight	0.0367 kg

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

SKF drawings

