



SKF 311-2Z

Deep groove ball bearing with filling slots and integral sealing

Single row deep groove ball bearings with filling slots and shields on one or both sides, accommodate more balls than standard deep groove ball bearings. They are of a simple, yet versatile, design and are robust in operation, requiring little maintenance. They can accommodate radial and axial loads in both directions. They have a higher radial load carrying capacity than the corresponding bearings without filling slots but have a limited axial load carrying capacity due to the filling slots. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

Technical specifications

Dimensions	
Bore diameter	55 mm
Outside diameter	120 mm
Width	29 mm
Shoulder diameter	75.34 mm
Recess diameter	103.7 mm
Chamfer dimension	2 mm

Abutment dimensions	
Diameter of shaft abutment	66 mm
Diameter of shaft abutment	75.2 mm
Diameter of housing abutment	109 mm
Radius of shaft or housing fillet	2 mm

Calculation data	
Basic dynamic load rating	79.2 kN
Basic static load rating	67 kN
Fatigue load limit	2.85 kN
Reference speed	10000 r/min
Limiting speed	5000 r/min
Minimum load factor	0.05

Performance	
Basic dynamic load rating	79.2 kN
Basic static load rating	67 kN
Reference speed	10000 r/min
Limiting speed	5000 r/min

Properties	
Filling slots	With
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 both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	5.5 kg CO ₂

Logistics	
Product net weight	1.54 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings