



SKF 207 NR

Deep groove ball bearing with filling slots and snap ring

Single row deep groove ball bearings with filling slots and a snap ring 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 snap ring, fitted in an annular groove in the outer ring, facilitates axial location of the bearings within their housings.

Technical specifications

Dimensions	
Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm
Shoulder diameter	46.94 mm
Recess diameter	62.69 mm
Diameter of snap ring groove	68.81 mm
Outside diameter of snap ring	78.6 mm
Width of snap ring groove	1.9 mm
Distance from outer ring side face to snap ring groove	3.28 mm
Width of snap ring	1.7 mm
Bottom radius of snap ring groove	0.6 mm
Chamfer dimension	1.1 mm

Abutment dimensions	
Diameter of shaft abutment	42 mm
Diameter of housing abutment	65 mm
Diameter of snap ring recess in the housing	80 mm
Width of snap ring recess in the housing	2.2 mm
Distance from outer ring side face to snap ring back face	4.98 mm
Radius of shaft or housing fillet	1 mm

Calculation data	
Basic dynamic load rating	27.5 kN
Basic static load rating	22 kN
Fatigue load limit	0.93 kN
Reference speed	17000 r/min
Limiting speed	10000 r/min
Minimum load factor	0.04

Included products	
Snap ring	SP 72

Performance	
Basic dynamic load rating	27.5 kN
Basic static load rating	22 kN
Reference speed	17000 r/min
Limiting speed	10000 r/min

Properties	
Filling slots	With
Number of rows	1
Locating feature, bearing outer ring	Snap ring (fitted)
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel

Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	1.1 kg CO ₂ e

Logistics	
Product net weight	0.304 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings

