



SKF BS2-2208-2RS/VT143

Spherical roller bearing with integral sealing and relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. Under normal operating conditions, sealed bearings are almost maintenance-free, keeping service costs and grease consumption low. The design includes features to facilitate relubrication.

Technical specifications

General	
Bore type	Cylindrical

Dimensions	
Bore diameter	40 mm
Deviation limits of mid-range bore diameter	-0.012..0 mm
Outside diameter	80 mm
Deviation limits of mid-range outside diameter	-0.013..0 mm
Width	28 mm
Deviation limits of ring width	-0.06..0 mm
Shoulder diameter of inner ring	47.2 mm
Shoulder/recess diameter of outer ring	72.8 mm
Width of lubrication groove	6 mm
Diameter of lubrication hole	3 mm
Chamfer dimension	1.1 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of shaft abutment	46.8 mm
Diameter of shaft abutment	47 mm
Diameter of housing abutment	73 mm
Radius of fillet	1 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	98.5 kN
Basic static load rating	91.5 kN
Fatigue load limit	10 kN
Limiting speed	4000 r/min
Limiting value	0.28
Calculation factor	2.4
Calculation factor	3.6
Calculation factor	2.5

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	5 µm
Maximum run-out of inner ring side face to the bore	8 µm
Range of section height at outer ring of assembled bearing	8 µm
Perpendicularity of outer ring outside surface	4 µm
ISO tolerance class for geometrical tolerances	P5

Radial internal clearance	
Minimum initial clearance	30 µm
Maximum initial clearance	45 µm

Performance	
Basic dynamic load rating	98.5 kN
Basic static load rating	91.5 kN

Limiting speed	4000 r/min
SKF performance class	SKF Explorer

Properties	
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With
Indicative carbon footprint for new product	2.1 kg CO ₂ e

Logistics	
Product net weight	0.592 kg
eClass code	23-05-09-11
UNSPSC code	31171510

SKF drawings