



## SKF 21318 E

### Spherical roller bearing with 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. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

## Technical specifications

<b>General</b>	
Bore type	Cylindrical
<b>Dimensions</b>	
Bore diameter	90 mm
Deviation limits of mid-range bore diameter	-0.02..0 mm
Outside diameter	190 mm
Deviation limits of mid-range outside diameter	-0.03..0 mm
Width	43 mm
Deviation limits of ring width	-0.08..0 mm
Shoulder diameter of inner ring	112 mm
Shoulder/recess diameter of outer ring	150 mm
Width of lubrication groove	8.3 mm
Diameter of lubrication hole	4.5 mm
Chamfer dimension	3 mm
ISO tolerance class for dimensions	Normal
<b>Abutment dimensions</b>	
Diameter of shaft abutment	104 mm
Diameter of housing abutment	176 mm
Radius of fillet	2.5 mm
<b>Calculation data</b>	
SKF performance class	SKF Explorer
Basic dynamic load rating	393 kN
Basic static load rating	450 kN
Fatigue load limit	45.5 kN
Reference speed	3600 r/min
Limiting speed	4800 r/min
Limiting value	0.24
Calculation factor	2.8
Calculation factor	4.2
Calculation factor	2.8
<b>Tolerances of run-out</b>	
Range of section height at inner ring of assembled bearing	6 µm
Maximum run-out of inner ring side face to the bore	9 µm
Range of section height at outer ring of assembled bearing	15 µm
Perpendicularity of outer ring outside surface	5.5 µm
ISO tolerance class for geometrical tolerances	P5
<b>Radial internal clearance</b>	
Minimum initial clearance	60 µm
Maximum initial clearance	100 µm
<b>Performance</b>	
Basic dynamic load rating	393 kN
Basic static load rating	450 kN

Reference speed	3600 r/min
Limiting speed	4800 r/min
SKF performance class	SKF Explorer

<b>Properties</b>	
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	Without
Lubricant	None
Relubrication feature	With
Indicative carbon footprint for new product	22.3 kg CO <sub>2</sub> e

<b>Logistics</b>	
Product net weight	6.2 kg
eClass code	23-05-09-11
UNSPSC code	31171510

SKF drawings

