



SKF 23140 CC/W33

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

General	
Bore type	Cylindrical

Dimensions	
Bore diameter	200 mm
Deviation limits of mid-range bore diameter	-0.03..0 mm
Outside diameter	340 mm
Deviation limits of mid-range outside diameter	-0.04..0 mm
Width	112 mm
Deviation limits of ring width	-0.08..0 mm
Shoulder diameter of inner ring	231 mm
Shoulder/recess diameter of outer ring	293 mm
Width of lubrication groove	16.7 mm
Diameter of lubrication hole	9 mm
Chamfer dimension	3 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of shaft abutment	214 mm
Diameter of housing abutment	326 mm
Radius of fillet	2.5 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	1665 kN
Basic static load rating	2360 kN
Fatigue load limit	204 kN
Reference speed	1500 r/min
Limiting speed	1900 r/min
Limiting value	0.31
Calculation factor	2.2
Calculation factor	3.3
Calculation factor	2.2

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	10 µm
Maximum run-out of inner ring side face to the bore	11 µm
Range of section height at outer ring of assembled bearing	20 µm
Perpendicularity of outer ring outside surface	6.5 µm
ISO tolerance class for geometrical tolerances	P5

Radial internal clearance	
Minimum initial clearance	130 µm
Maximum initial clearance	200 µm

Performance	
Basic dynamic load rating	1665 kN
Basic static load rating	2360 kN

Reference speed	1500 r/min
Limiting speed	1900 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	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	149 kg CO ₂ e
Indicative carbon footprint for remanufactured product	52.2 kg CO ₂ e

Logistics	
Product net weight	41.4 kg
eClass code	23-05-09-11
UNSPSC code	31171510

SKF drawings

