



SKF 24136 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	180 mm
Deviation limits of mid-range bore diameter	-0.025..0 mm
Outside diameter	300 mm
Deviation limits of mid-range outside diameter	-0.035..0 mm
Width	118 mm
Deviation limits of ring width	-0.08..0 mm
Shoulder diameter of inner ring	203 mm
Shoulder/recess diameter of outer ring	253 mm
Width of lubrication groove	11.1 mm
Diameter of lubrication hole	6 mm
Chamfer dimension	3 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of shaft abutment	194 mm
Diameter of housing abutment	286 mm
Radius of fillet	2.5 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	1449 kN
Basic static load rating	2160 kN
Fatigue load limit	196 kN
Reference speed	1100 r/min
Limiting speed	1600 r/min
Limiting value	0.37
Calculation factor	1.8
Calculation factor	2.7
Calculation factor	1.8

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	8 µm
Maximum run-out of inner ring side face to the bore	10 µm
Range of section height at outer ring of assembled bearing	18 µm
Perpendicularity of outer ring outside surface	6.5 µm
ISO tolerance class for geometrical tolerances	P5

Radial internal clearance	
Minimum initial clearance	120 µm
Maximum initial clearance	180 µm

Performance	
Basic dynamic load rating	1449 kN
Basic static load rating	2160 kN

Reference speed	1100 r/min
Limiting speed	1600 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	119 kg CO ₂ e
Indicative carbon footprint for remanufactured product	41.6 kg CO ₂ e

Logistics	
Product net weight	33 kg
eClass code	23-05-09-11
UNSPSC code	31171510

SKF drawings

