



SKF 23064 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	320 mm
Deviation limits of mid-range bore diameter	-0.04..0 mm
Outside diameter	480 mm
Deviation limits of mid-range outside diameter	-0.045..0 mm
Width	121 mm
Deviation limits of ring width	-0.4..0 mm
Shoulder diameter of inner ring	360 mm
Shoulder/recess diameter of outer ring	434 mm
Width of lubrication groove	16.7 mm
Diameter of lubrication hole	9 mm
Chamfer dimension	4 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of shaft abutment	335 mm
Diameter of housing abutment	465 mm
Radius of fillet	3 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	2348 kN
Basic static load rating	3800 kN
Fatigue load limit	285 kN
Reference speed	1100 r/min
Limiting speed	1400 r/min
Limiting value	0.23
Calculation factor	2.9
Calculation factor	4.4
Calculation factor	2.8

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	60 µm
Range of section height at outer ring of assembled bearing	80 µm
ISO tolerance class for geometrical tolerances	Normal

Radial internal clearance	
Minimum initial clearance	200 µm
Maximum initial clearance	310 µm

Performance	
Basic dynamic load rating	2348 kN
Basic static load rating	3800 kN
Reference speed	1100 r/min
Limiting speed	1400 r/min

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	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	272 kg CO ₂ e
Indicative carbon footprint for remanufactured product	95.3 kg CO ₂ e

Logistics	
Product net weight	75.6 kg
eClass code	23-05-09-11
UNSPSC code	31171510

SKF drawings

