



SKF 22330 CCJA/W33VA405

Spherical roller bearing for vibratory applications, 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. This bearing design offers excellent performance in many types of vibrating machinery. 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	150 mm
Deviation limits of mid-range bore diameter	-0.013..0 mm
Outside diameter	320 mm
Deviation limits of mid-range outside diameter	-0.028..0 mm
Width	108 mm
Deviation limits of ring width	-0.08..0 mm
Shoulder diameter of inner ring	188 mm
Shoulder/recess diameter of outer ring	266 mm
Width of lubrication groove	16.7 mm
Diameter of lubrication hole	9 mm
Chamfer dimension	4 mm
ISO tolerance class for dimensions	Normal, bore to P5 and outside diameter P6
Abutment dimensions	
Diameter of shaft abutment	167 mm
Diameter of housing abutment	303 mm
Radius of fillet	3 mm
Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	1539 kN
Basic static load rating	1760 kN
Fatigue load limit	146 kN
Reference speed	1600 r/min
Limiting speed	2000 r/min
Limiting value	0.35
Calculation factor	1.9
Calculation factor	2.9
Calculation factor	1.8
Permissible rotational acceleration for oil lubrication	706 m/s ²
Permissible linear acceleration for oil lubrication	186 m/s ²
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	20 µm
Perpendicularity of outer ring outside surface	6.5 µm
ISO tolerance class for geometrical tolerances	P5
Radial internal clearance	
Minimum initial clearance	220 µm
Maximum initial clearance	280 µm
Performance	

Basic dynamic load rating	1539 kN
Basic static load rating	1760 kN
Reference speed	1600 r/min
Limiting speed	2000 r/min
SKF performance class	SKF Explorer

Properties	
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Surface-hardened sheet metal
Radial internal clearance	C4
Tolerance class for dimensions	Normal, bore to P5 and outside diameter P6
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	150 kg CO ₂ e
Indicative carbon footprint for remanufactured product	52.6 kg CO ₂ e

Logistics	
Product net weight	41.8 kg
eClass code	23-05-09-11
UNSPSC code	31171510

SKF drawings

