



SKF 22338 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	190 mm
Deviation limits of mid-range bore diameter	-0.015..0 mm
Outside diameter	400 mm
Deviation limits of mid-range outside diameter	-0.028..0 mm
Width	132 mm
Deviation limits of ring width	-0.08..0 mm
Shoulder diameter of inner ring	236 mm
Shoulder/recess diameter of outer ring	333 mm
Width of lubrication groove	22.3 mm
Diameter of lubrication hole	12 mm
Chamfer dimension	5 mm
ISO tolerance class for dimensions	Normal, bore to P5 and outside diameter P6
Abutment dimensions	
Diameter of shaft abutment	210 mm
Diameter of housing abutment	380 mm
Radius of fillet	4 mm
Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	2232 kN
Basic static load rating	2650 kN
Fatigue load limit	208 kN
Reference speed	1200 r/min
Limiting speed	1600 r/min
Limiting value	0.35
Calculation factor	1.9
Calculation factor	2.9
Calculation factor	1.8
Permissible rotational acceleration for oil lubrication	559 m/s ²
Permissible linear acceleration for oil lubrication	167 m/s 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	260 µm
Maximum initial clearance	340 µm
Performance	

Basic dynamic load rating	2232 kN
Basic static load rating	2650 kN
Reference speed	1200 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	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	283 kg CO ₂ e
Indicative carbon footprint for remanufactured product	99 kg CO ₂ e

Logistics	
Product net weight	78.6 kg
eClass code	23-05-09-11
UNSPSC code	31171510

SKF drawings