



Image may differ from product. See technical specification for details.

# 22319 EJA/VA405

#### Spherical roller bearing for vibratory applications, with relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are selfaligning 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.

- Accommodate misalignment
- High load carrying capacity
- Accommodate very high vibration levels
- Low friction and long service life
- Increased wear resistance

### **Overview**

#### Dimensions

Bore diameter	95 mm
Outside diameter	200 mm
Width	67 mm

#### Performance

Basic dynamic load rating	699 kN
Basic static load rating	765 kN
Reference speed	2 600 r/min
Limiting speed	3 400 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	Normal
Tolerance class for dimensions	Normal, bore to P5 and outside diameter P6
Tolerance class for run-out	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With

## Logistics

Product net weight	10.3 kg
eClass code	23-05-09-11
UNSPSC code	31171510

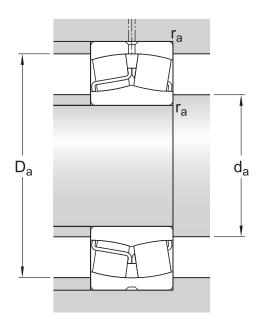
## Technical specification

Bore type

Cylindrical

## Dimensions

d	95 mm	Bore diameter
D	200 mm	Outside diameter
В	67 mm	Width
d <sub>2</sub>	≈ 118 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 168 mm	Shoulder/recess diameter of outer ring
b	11.1 mm	Width of lubrication groove
К	6 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 3 mm	Chamfer dimension



## Abutment dimensions

da	min. 109 mm	Diameter of shaft abutment
Da	max. 186 mm	Diameter of housing abutment
ra	max. 2.5 mm	Radius of fillet

#### Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	699 kN
Basic static load rating	C <sub>0</sub>	765 kN
Fatigue load limit	Pu	73.5 kN
Reference speed		2 600 r/min
Limiting speed		3 400 r/min
Limiting value	e	0.33
Calculation factor	Y <sub>1</sub>	2
Calculation factor	Y <sub>2</sub>	3
Calculation factor	Y <sub>0</sub>	2
Permissible rotational acceleration for oil lubrication		628 m/s <sup>2</sup>
Permissible linear acceleration for oil lubrication		196 m/s <sup>2</sup>

#### Tolerance class

Dimensional tolerances

Normal, bore to P5 and outside diameter P6

Radial run-out

Normal

## More Information

Product details	Engineering information	Tools
Designs and variants		SimPro Quick
General bearing specifications	Principles of rolling bearing selection	SKF Product select
Loads	General bearing knowledge	SKF Product select
Temperature limits	Bearing selection process	LubeSelect for SKF greases
Permissible speed	Bearing failure and how to prevent it	Drive-up Method Program
Design considerations	-	Heater selection tool
Mounting	-	Oil Injection Method Program
Designation system		Tool and Accessory Selector for sleeves and shafts



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