22322 EJA/VA406Spherical roller bearing for vibratory applications, with relubrication features

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.

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

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	240 mm
Width	80 mm

Performance

Basic dynamic load rating	989 kN
Basic static load rating	1 120 kN
Reference speed	2 000 r/min
Limiting speed	2 800 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
Candidate for remanufacturing	Yes

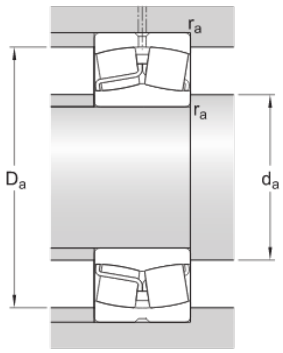
Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical

NOT FOUND

Dimensions

d	110 mm	Bore diameter
D	240 mm	Outside diameter
B	80 mm	Width
d_2	≈ 143 mm	Shoulder diameter of inner ring
D_1	≈ 204 mm	Shoulder/recess diameter of outer ring
b	13.9 mm	Width of lubrication groove
K	7.5 mm	Diameter of lubrication hole
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 124 mm	Diameter of shaft abutment
D_a	max. 226 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	989 kN
Basic static load rating	C_0	1 120 kN

Fatigue load limit	P_u	100 kN
Reference speed		2 000 r/min
Limiting speed		2 800 r/min
Limiting value	e	0.33
Calculation factor	Y_1	2
Calculation factor	Y_2	3
Calculation factor	Y_0	2
Permissible rotational acceleration for oil lubrication		520 m/s^2
Permissible linear acceleration for oil lubrication		186 m/s^2

Mass

Mass	18.4 kg

Tolerance class

Dimensional tolerances	Normal, bore to P5 and outside diameter P6
Radial run-out	Normal

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