22324 CCJA/W33VA405Spherical 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	120 mm
Outside diameter	260 mm
Width	86 mm

Performance

Basic dynamic load rating	1 019 kN
Basic static load rating	1 120 kN
Reference speed	2 000 r/min
Limiting speed	2 600 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	Normal, bore to P5 and outside

for dimensions	diameter P6
Tolerance class for run-out	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes

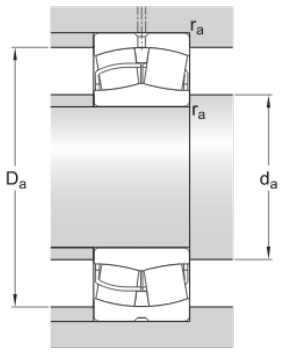
Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical

NOT FOUND

Dimensions

d	120 mm	Bore diameter
D	260 mm	Outside diameter
B	86 mm	Width
d_2	≈ 152 mm	Shoulder diameter of inner ring
D_1	≈ 216 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. 134 mm	Diameter of shaft abutment
D_a	max. 246 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 019 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		2 600 r/min
Limiting value	e	0.35
Calculation factor	Y_1	1.9
Calculation factor	Y_2	2.9
Calculation factor	Y_0	1.8
Permissible rotational acceleration for oil lubrication		942 m/s^2
Permissible linear acceleration for oil lubrication		206 m/s^2

Mass

Mass	23 kg

Tolerance class

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

Terms and conditions

By accessing and using this website / app owned and published by AB SKF (publ.) (556007-3495 · Gothenburg) (“SKF”), you agree to the following terms and conditions:

Warranty Disclaimer and Limitation of Liability

Although every care has been taken to assure the accuracy of the information on this website / app, SKF provides this information "AS IS" and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. You acknowledge that your use of this website / app is at your sole risk, that you assume full responsibility for all costs associated with use of this website / app, and that SKF shall not be liable for any direct, incidental, consequential, or indirect damages of any kind arising out of your access to, or use of the information or software made available on this website / app. Any warranties and representations in this website / app for SKF products or services that you purchase or use will be subject to the agreed upon terms and conditions in the contract for such product or service. Further, for non-SKF websites / apps that are referenced in our website / app or where a hyperlink appears, SKF makes no warranties concerning the accuracy or reliability of the information in these websites / apps and assumes no responsibility for material created or published by third parties contained therein. In addition, SKF does not warrant that this website / app or these other linked websites / apps are free from viruses or other harmful elements.

Third Party Services

When viewing YouTube content via the SKF website(s) (i.e. using YouTube API Services), you agree to be bound by the YouTube Terms of Service.

Copyright

Copyright in this website / app copyright of the information and software made available on this website / app rest with SKF or its licensors. All rights are reserved. All licensed material will reference the licensor that has granted SKF the right to use the material. The information and software made available on this website / app may not be reproduced, duplicated, copied, transferred, distributed, stored, modified, downloaded or otherwise exploited for any commercial use without the prior written approval of SKF. However, it may be reproduced, stored and downloaded for use by individuals without prior written approval of SKF. Under no circumstances may this information or software be supplied to third parties.
This website /app includes certain images used under license from Shutterstock, Inc.

Trademarks and Patents

All trademarks, brand names, and corporate logos displayed on the website / app are the property of SKF or its licensors, and may not be used in any way without prior written approval by SKF. All licensed trademarks published on this website / app reference the licensor that has granted SKF the right to use the trademark. Access to this website / app does not grant to the user any license under any patents owned by or licensed to SKF.

Changes

SKF reserves the right to make changes or additions to this website / app at any time.