23138 CCK/W33Spherical roller bearing with tapered bore and relubrication features

Spherical roller bearing with tapered bore and 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. 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
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	320 mm
Width	104 mm

Performance

Basic dynamic load rating	1 456 kN
Basic static load rating	2 080 kN
Reference speed	1 500 r/min
Limiting speed	2 000 r/min
SKF performance class	SKF Explorer

Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With

Candidate for remanufacturing	Yes

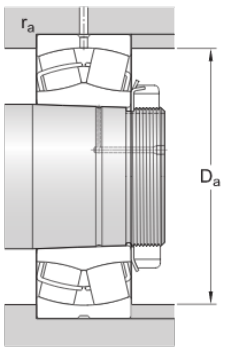
Technical Specification

SKF performance class	SKF Explorer
Bore type	Tapered 1:12

NOT FOUND

Dimensions

d	190 mm	Bore diameter
D	320 mm	Outside diameter
B	104 mm	Width
d_2	≈ 220 mm	Shoulder diameter of inner ring
D_1	≈ 275 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	max. 306 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 456 kN
Basic static load rating	C_0	2 080 kN

Fatigue load limit	P_u	183 kN
Reference speed		1 500 r/min
Limiting speed		2 000 r/min
Limiting value	e	0.31
Calculation factor	Y_1	2.2
Calculation factor	Y_2	3.3
Calculation factor	Y_0	2.2

Mass

Mass	33.5 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5

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