

# 231/600 CAK/W33



## 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	23.622 in
Outside diameter	38.583 in
Width	11.811 in

### Performance

Basic dynamic load rating	2 413,998 lbf
Basic static load rating	4 046,561 lbf
Limiting speed	560 r/min
Reference speed	320 r/min
SKF performance class	SKF Explorer

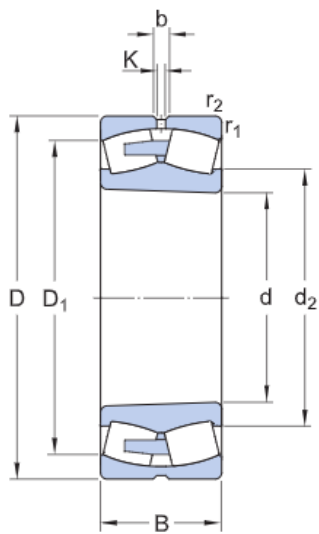
### Properties

Bore type	Tapered 1:12
Cage	Machined metal
Candidate for remanufacturing	Yes
Locating feature, bearing outer ring	Without
Lubricant	None
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

# Technical Specification

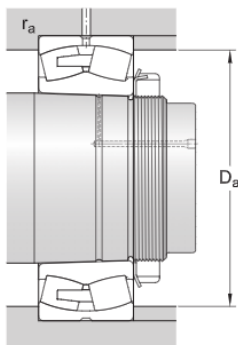
SKF performance class	SKF Explorer
Bore type	Tapered 1:12

## Dimensions



d	23.622 in	Bore diameter
D	38.583 in	Outside diameter
B	11.811 in	Width
d <sub>2</sub>	≈ 28.425 in	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 33.976 in	Shoulder/recess diameter of outer ring
b	0.878 in	Width of lubrication groove
K	0.472 in	Diameter of lubrication hole
r <sub>1,2</sub>	min. 0.295 in	Chamfer dimension

## Abutment dimensions



D <sub>a</sub>	max. 37.323 in	Diameter of housing abutment
r <sub>a</sub>	max. 0.236 in	Radius of fillet

## Calculation data

Basic dynamic load rating	C	2 413,998 lbf
Basic static load rating	C <sub>0</sub>	4 046,561 lbf

Fatigue load limit	$P_u$	247 290 lbf
Reference speed		320 r/min
Limiting speed		560 r/min
Limiting value	$e$	0.3
Calculation factor	$Y_1$	2.3
Calculation factor	$Y_2$	3.4
Calculation factor	$Y_0$	2.2

### Mass

Mass		1 929.045 lb
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