



# 23228 CC/W33

## Spherical roller bearing 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. 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	140 mm
Outside diameter	250 mm
Width	88 mm

#### Performance

Basic dynamic load rating	962 kN
Basic static load rating	1 250 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min
SKF performance class	SKF Explorer

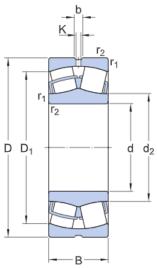
#### **Properties**

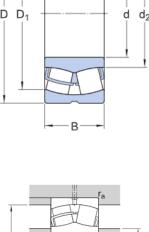
Bore type	Cylindrical
Cage	Sheet metal
Candidate for remanufacturing	Yes
Locating feature, bearing outer ring	Without
Lubricant	None
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without



# Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical





## Dimensions

d	140 mm	Bore diameter
D	250 mm	Outside diameter
В	88 mm	Width
$d_2$	≈ 165 mm	Shoulder diameter of inner ring
$D_1$	≈ 212 mm	Shoulder/recess diameter of outer ring
b	11.1 mm	Width of lubrication groove
K	6 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 3 mm	Chamfer dimension

### Abutment dimensions

d <sub>a</sub> min. 154 mm	Diameter of shaft abutment
D <sub>a</sub> max. 236 mm	Diameter of housing abutment
r <sub>a</sub> max. 2.5 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	С	962 kN
Basic static load rating	$C_O$	1 250 kN



Fatigue load limit	$P_{\rm u}$	120 kN
Reference speed		1 700 r/min
Limiting speed		2 400 r/min
Limiting value	е	0.33
Calculation factor	$Y_1$	2
Calculation factor	Y <sub>2</sub>	3
Calculation factor	$Y_0$	2

### Mass

Mass	18.5 kg
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