

# 22216 E

## 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	80 mm
Outside diameter	140 mm
Width	33 mm

#### Performance

Basic dynamic load rating	243 kN
Basic static load rating	270 kN
Limiting speed	6 000 r/min
Reference speed	4 300 r/min
SKF performance class	SKF Explorer

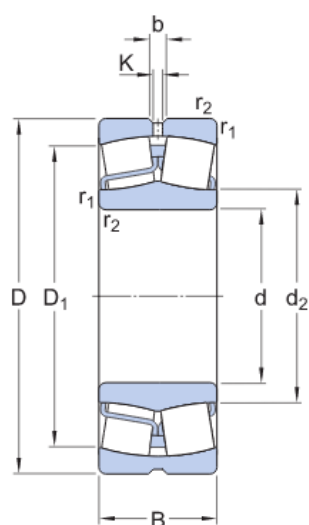
#### Properties

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

# Technical Specification

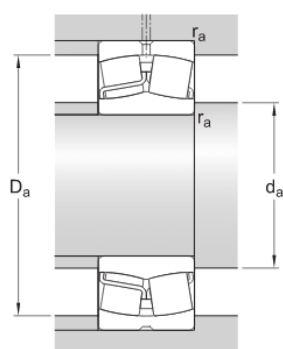
SKF performance class	SKF Explorer
Bore type	Cylindrical

## Dimensions



d	80 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
d <sub>2</sub>	≈ 94.7 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 124 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
K	3 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 2 mm	Chamfer dimension

## Abutment dimensions



d <sub>a</sub>	min. 91 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 129 mm	Diameter of housing abutment
r <sub>a</sub>	max. 2 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	243 kN
Basic static load rating	C <sub>0</sub>	270 kN

Fatigue load limit	$P_u$	29 kN
Reference speed		4 300 r/min
Limiting speed		6 000 r/min
Limiting value	$e$	0.22
Calculation factor	$Y_1$	3
Calculation factor	$Y_2$	4.6
Calculation factor	$Y_0$	2.8

## Mass

Mass		2.1 kg
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