



Image may differ from product. See technical specification for details.

# 24028-2CS5/VT143

Spherical roller bearing with integral sealing 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. Under normal operating conditions, sealed bearings are almost

maintenance-free, keeping service costs and grease consumption low. The design includes features to facilitate relubrication.

- Accommodate misalignment
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

## **Overview**

#### **Dimensions**

Bore diameter	140 mm
Outside diameter	210 mm
Width	69 mm

## Performance

Basic dynamic load rating	601 kN
Basic static load rating	900 kN
Limiting speed	620 r/min
SKF performance class	SKF Explorer

# **Properties**

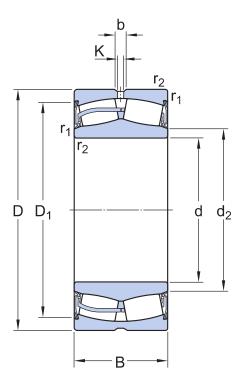
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With
Candidate for remanufacturing	Yes

# Logistics

Product net weight	8.19 kg
eClass code	23-05-09-11
UNSPSC code	31171510

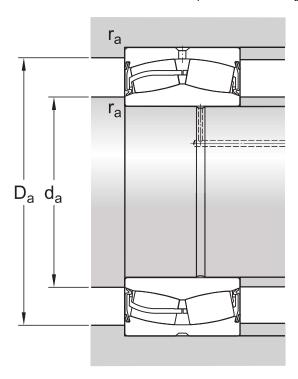
# **Technical specification**

Bore type Cylindrical



## **Dimensions**

d	140 mm	Bore diameter
D	210 mm	Outside diameter
В	69 mm	Width
$d_2$	≈ 151 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 195 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
К	3 mm	Diameter of lubrication hole
r <sub>1.2</sub>	min. 2 mm	Chamfer dimension



## **Abutment dimensions**

d <sub>a</sub>	min. 149 mm	Diameter of shaft abutment
d <sub>a</sub>	max. 151 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 201 mm	Diameter of housing abutment
r <sub>a</sub>	max. 2 mm	Radius of fillet

# Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	601 kN
Basic static load rating	C <sub>0</sub>	900 kN
Fatigue load limit	P <sub>u</sub>	88 kN
Limiting speed		620 r/min
Limiting value	e	0.28
Calculation factor	Y <sub>1</sub>	2.4
Calculation factor	Y <sub>2</sub>	3.6
Calculation factor	Y <sub>0</sub>	2.5

## **Tolerance class**

Dimensional tolerances	Normal
Radial run-out	P5

## **Tolerances and clearances**

#### GENERAL BEARING SPECIFICATIONS

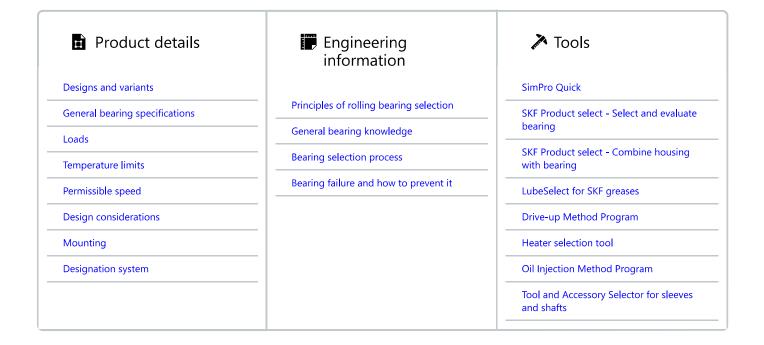
• Tolerances: Normal, P6, P5, tapered bore 1:12, tapered bore 1:30

• Radial internal clearance: cylindrical bore, tapered bore

#### **BEARING INTERFACES**

- Seat tolerances for standard conditions
- Tolerances and resultant fit

## **More Information**





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