Image may differ from product. See specification for details.

23260 CAC/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	11.811 in
Outside diameter	21.2598 in
Width	7.5591 in

Performance

Basic dynamic load rating	910 926 lbf
Basic static load rating	1 315 132 lbf
Reference speed	750 r/min
Limiting speed	1 000 r/min
SKF performance class	SKF Explorer

Properties

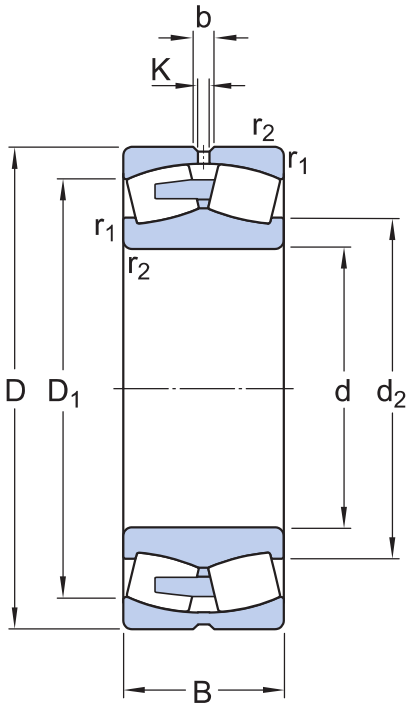
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Machined brass
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	1 502 lb CO_2e
Indicative carbon footprint for remanufactured product	526 lb CO_2e

Logistics

Product net weight	417 lb
eClass code	23-05-09-11
UNSPSC code	31171510

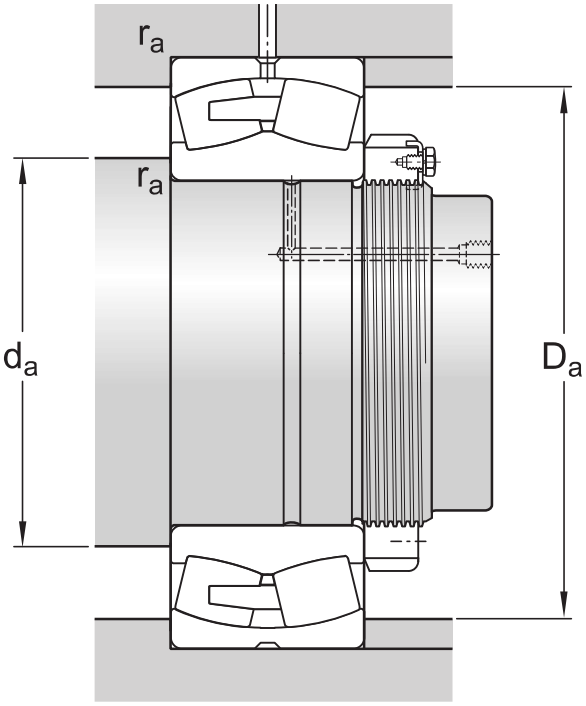
Technical specification

Bore type	Cylindrical



Dimensions

d	11.811 in	Bore diameter
$t_{\Delta dmp}$	-35 – 0 µm	Deviation limits of mid-range bore diameter
D	21.2598 in	Outside diameter
$t_{\Delta Dmp}$	-50 – 0 µm	Deviation limits of mid-range outside diameter
B	7.5591 in	Width
$t_{\Delta Bs}$	-100 – 0 µm	Deviation limits of ring width
d_2	≈ 14.7244 in	Shoulder diameter of inner ring
D_1	≈ 18.1496 in	Shoulder/recess diameter of outer ring
b	0.878 in	Width of lubrication groove
K	0.4724 in	Diameter of lubrication hole
$r_{1,2}$	min. 0.1969 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 12.5984 in	Diameter of shaft abutment
D_a	max. 20.4724 in	Diameter of housing abutment
r_a	max. 0.1575 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	910 926 lbf
Basic static load rating	C_0	1 315 132 lbf
Fatigue load limit	P_u	95 544 lbf
Reference speed		750 r/min
Limiting speed		1 000 r/min
Limiting value	e	0.35
Calculation factor	Y_1	1.9
Calculation factor	Y_2	2.9
Calculation factor	Y_0	1.8

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	13 µm
Maximum run-out of inner ring side face to the bore	t_{Sd}	13 µm
Range of section height at outer ring of assembled bearing	t_{Kea}	25 µm
Perpendicularity of outer ring outside surface	t_{SD}	9 µm
ISO tolerance class for geometrical tolerances		P5

Radial internal clearance

Minimum initial clearance	0.0075 in
Maximum initial clearance	0.011 in

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

Product details

- Designs and variants
- General bearing specifications
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Mounting
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

Tools

- SimPro Quick
- SKF Product select - Select and evaluate bearing
- SKF Product select - Combine housing with bearing
- LubeSelect for SKF greases
- Drive-up Method Program
- Heater selection tool
- Oil Injection Method Program
- Tool and Accessory Selector for sleeves and shafts

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