



Image may differ from product. See specification for details.

23064 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	12.5984 in
Outside diameter	18.8976 in
Width	4.7638 in

Performance

Basic dynamic load rating	527 851 lbf
Basic static load rating	854 274 lbf
Reference speed	1 100 r/min
Limiting speed	1 400 r/min
SKF performance class	SKF Explorer

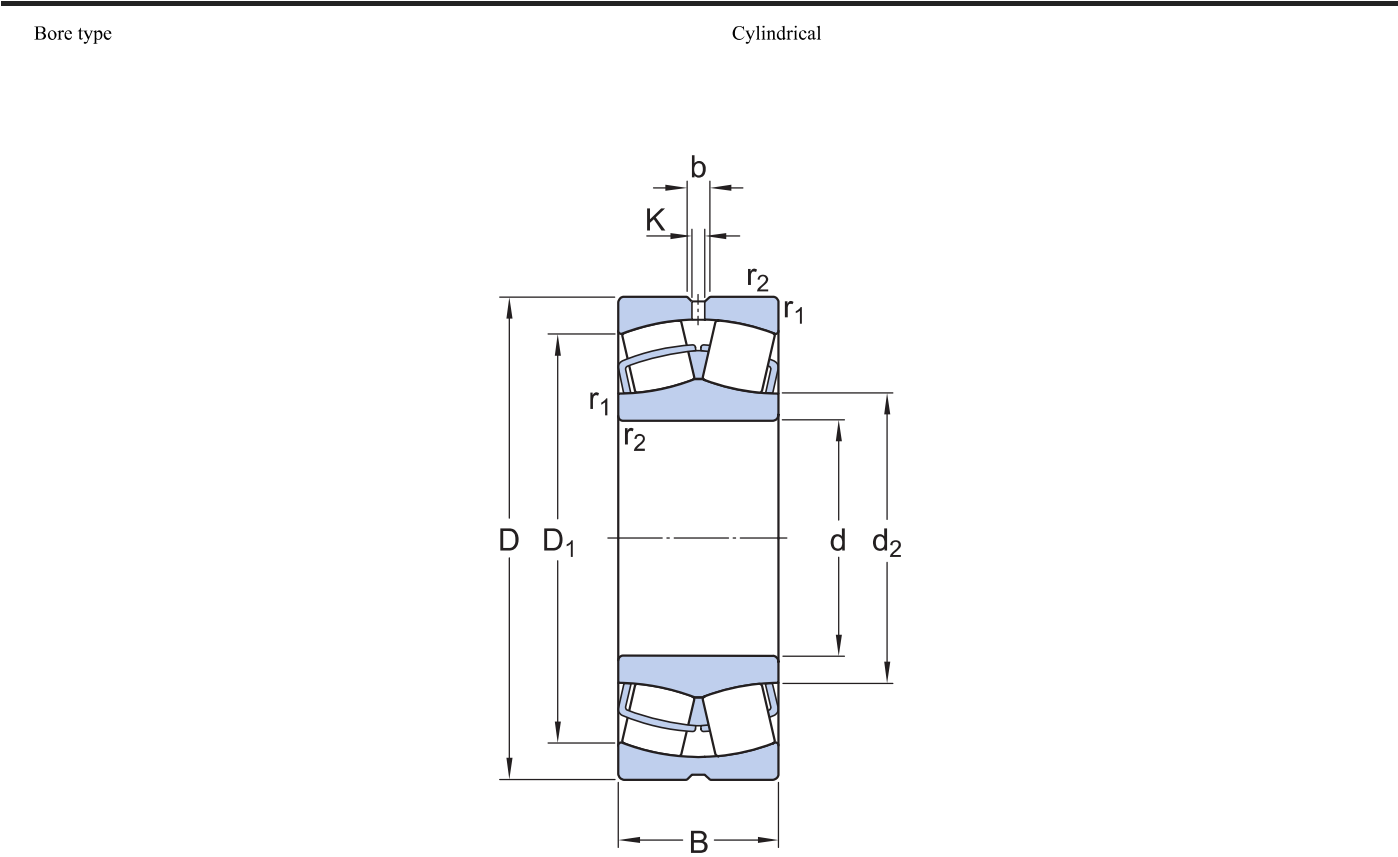
Properties

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	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	600 lb CO ₂ e
Indicative carbon footprint for remanufactured product	210 lb CO ₂ e

Logistics

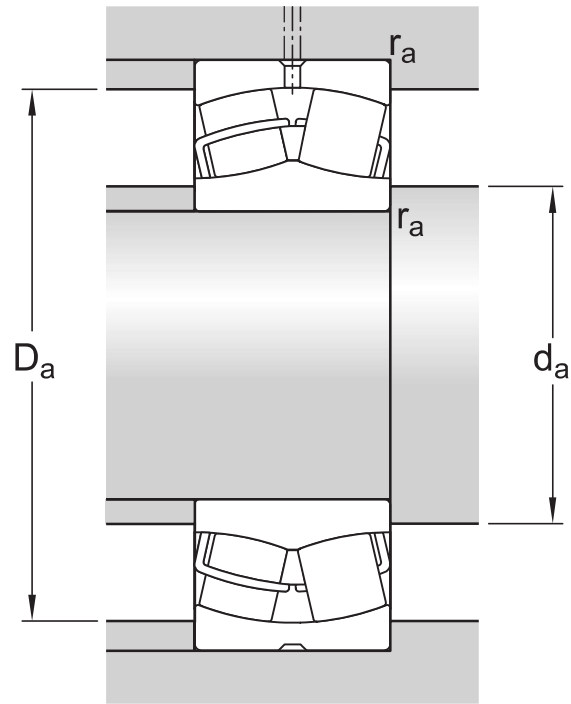
Product net weight	167 lb
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification



Dimensions

d	12.5984 in	Bore diameter
t _{Δdmp}	-40 – 0 μm	Deviation limits of mid-range bore diameter
D	18.8976 in	Outside diameter
t _{ΔDmp}	-45 – 0 μm	Deviation limits of mid-range outside diameter
B	4.7638 in	Width
t _{ΔBs}	-400 – 0 μm	Deviation limits of ring width
d ₂	≈ 14.1732 in	Shoulder diameter of inner ring
D ₁	≈ 17.0866 in	Shoulder/recess diameter of outer ring
b	0.6575 in	Width of lubrication groove
K	0.3543 in	Diameter of lubrication hole
r _{1,2}	min. 0.1575 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d _a	min. 13.189 in	Diameter of shaft abutment
D _a	max. 18.3071 in	Diameter of housing abutment
r _a	max. 0.1181 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	527 851 lbf
Basic static load rating	C ₀	854 274 lbf
Fatigue load limit	P _u	64 071 lbf
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Limiting value	e	0.23
Calculation factor	Y ₁	2.9
Calculation factor	Y ₂	4.4
Calculation factor	Y ₀	2.8

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t _{Kia}	60 μm
Range of section height at outer ring of assembled bearing	t _{Kea}	80 μm
ISO tolerance class for geometrical tolerances		Normal

Radial internal clearance

Minimum initial clearance	0.0079 in
Maximum initial clearance	0.0122 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	Engineering information	Tools
Designs and variants	Principles of rolling bearing selection	SimPro Quick
General bearing specifications	General bearing knowledge	SKF Product select - Select and evaluate bearing
Loads	Bearing selection process	SKF Product select - Combine housing with bearing
Temperature limits	Bearing failure and how to prevent it	LubeSelect for SKF greases
Permissible speed		Drive-up Method Program
Design considerations		Heater selection tool
Mounting		Oil Injection Method Program
Designation system		Tool and Accessory Selector for sleeves and shafts



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