



Image may differ from product. See specification for details.

23252 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	10.2362 in
Outside diameter	18.8976 in
Width	6.8504 in

Performance

Basic dynamic load rating	763 226 lbf
Basic static load rating	1 067 842 lbf
Reference speed	850 r/min
Limiting speed	1 200 r/min
SKF performance class	SKF Explorer

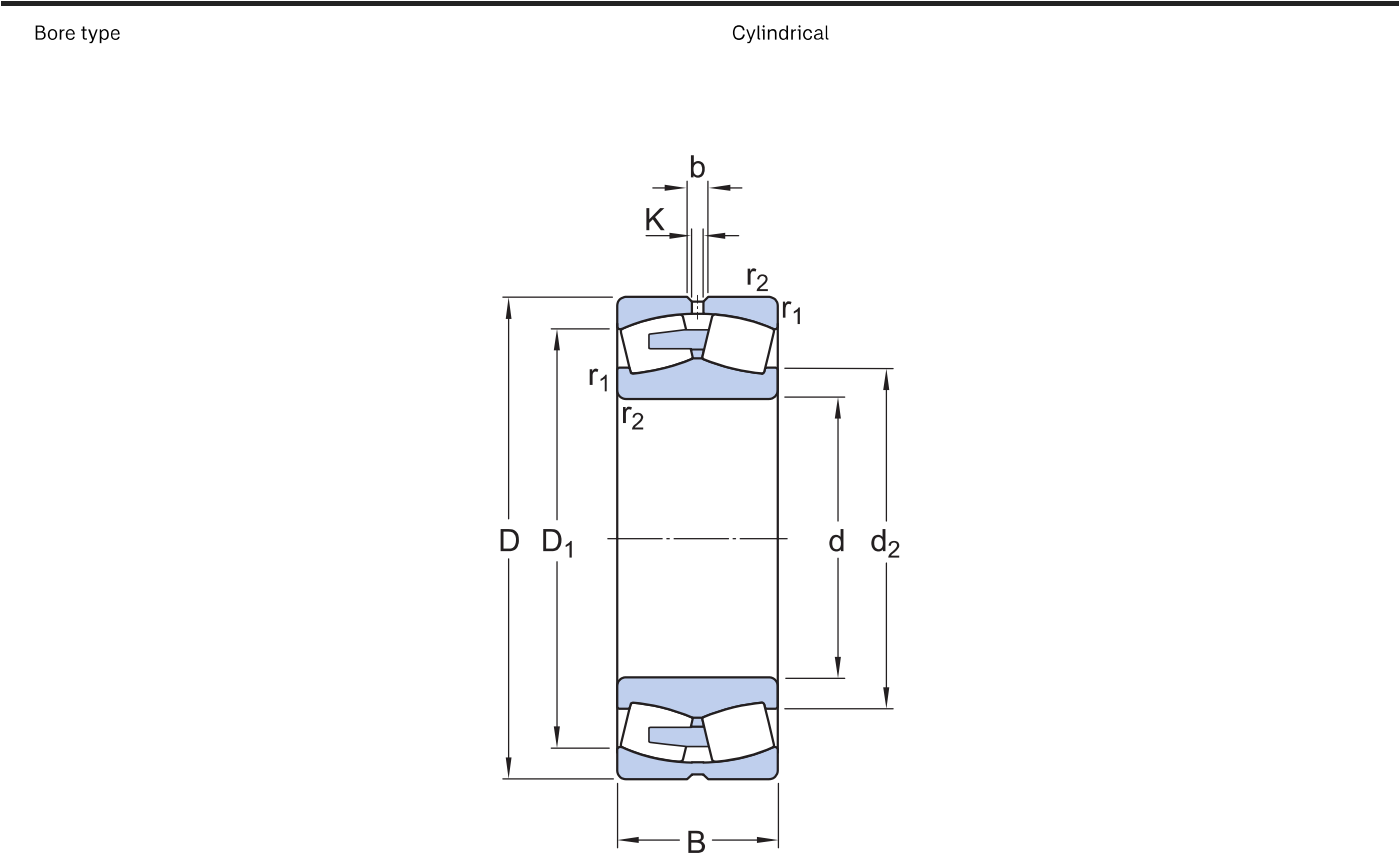
Properties

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	1 111 lb CO ₂ e
Indicative carbon footprint for remanufactured product	389 lb CO ₂ e

Logistics

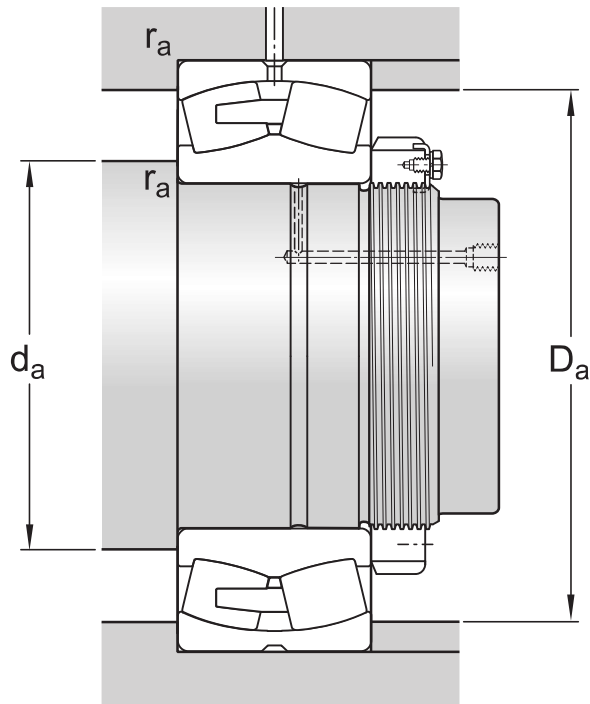
Product net weight	309 lb
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification



Dimensions

d	10.2362 in	Bore diameter
t _{Δdmp}	-35 – 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	6.8504 in	Width
t _{ΔBs}	-100 – 0 μm	Deviation limits of ring width
d ₂	≈ 12.9528 in	Shoulder diameter of inner ring
D ₁	≈ 16.063 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. 11.0236 in	Diameter of shaft abutment
D_a	max. 18.1102 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	763 226 lbf
Basic static load rating	C_0	1 067 842 lbf
Fatigue load limit	P_u	80 931 lbf
Reference speed		850 r/min
Limiting speed		1 200 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}	23 μm
Perpendicularity of outer ring outside surface	t _{SD}	7.5 μm
ISO tolerance class for geometrical tolerances		P5

Radial internal clearance

Minimum initial clearance	0.0067 in
Maximum initial clearance	0.0102 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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