



Image may differ from product. See specification for details.

23248 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	9.4488 in
Outside diameter	17.3228 in
Width	6.2992 in

Performance

Basic dynamic load rating	629 240 lbf
Basic static load rating	854 274 lbf
Reference speed	950 r/min
Limiting speed	1 300 r/min
SKF performance class	SKF Explorer

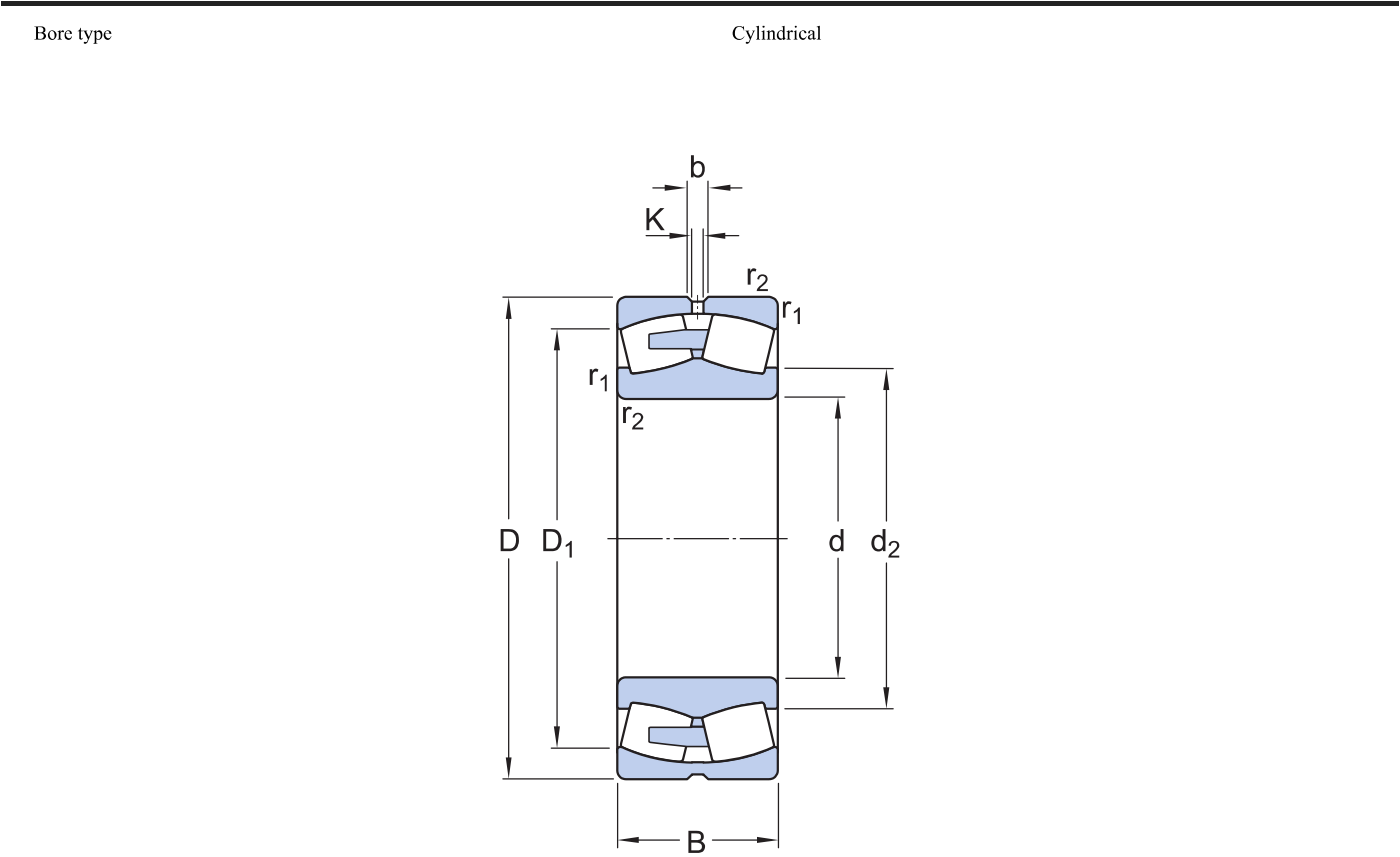
Properties

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	873 lb CO ₂ e
Indicative carbon footprint for remanufactured product	306 lb CO ₂ e

Logistics

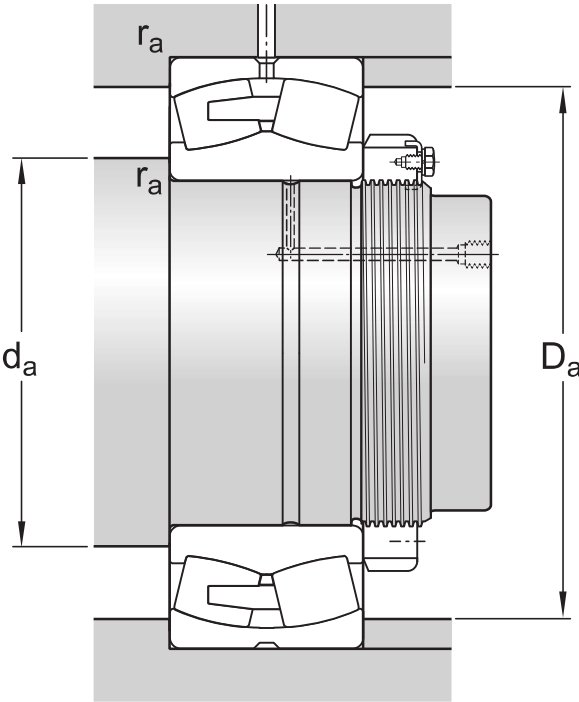
Product net weight	243 lb
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification



Dimensions

d	9.4488 in	Bore diameter
t _{Δdmp}	-30 – 0 μm	Deviation limits of mid-range bore diameter
D	17.3228 in	Outside diameter
t _{ΔDmp}	-45 – 0 μm	Deviation limits of mid-range outside diameter
B	6.2992 in	Width
t _{ΔBs}	-80 – 0 μm	Deviation limits of ring width
d ₂	≈ 11.8504 in	Shoulder diameter of inner ring
D ₁	≈ 14.7244 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. 0.1575 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 10.1181 in	Diameter of shaft abutment
D_a	max. 16.6535 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	629 240 lbf
Basic static load rating	C_0	854 274 lbf
Fatigue load limit	P_u	69 691 lbf
Reference speed		950 r/min
Limiting speed		1 300 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}	10 μm
Maximum run-out of inner ring side face to the bore	t _{Sd}	11 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	0.0059 in
Maximum initial clearance	0.0094 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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