



Image may differ from product. See specification for details.

22206 E

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	1.1811 in
Outside diameter	2.4409 in
Width	0.7874 in

Performance

Basic dynamic load rating	14 860 lbf
Basic static load rating	13 151 lbf
Reference speed	10 000 r/min
Limiting speed	14 000 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	Without
Lubricant	None
Relubrication feature	With
Indicative carbon footprint for new product	2.19 lb CO ₂ e

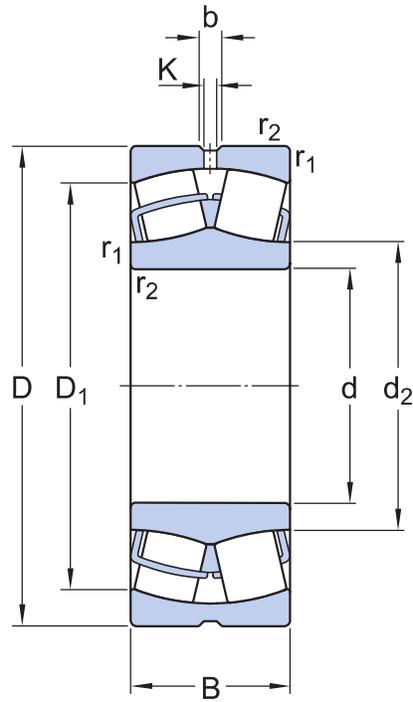
Logistics

Product net weight	0.61 lb
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification

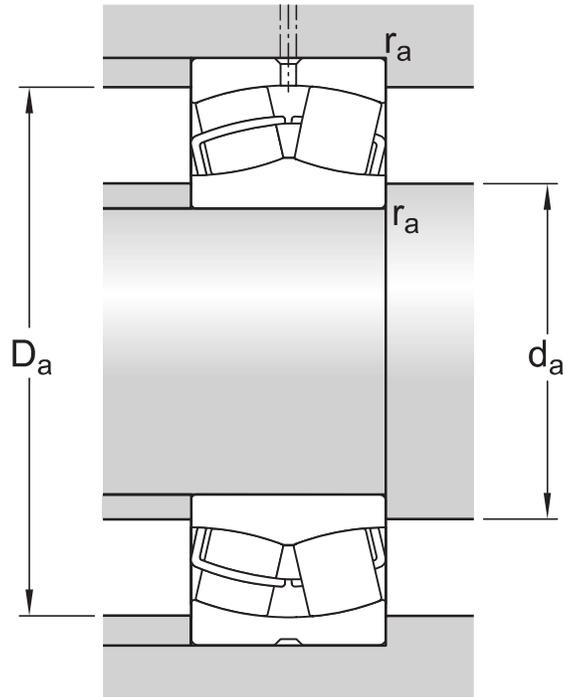
Bore type

Cylindrical



Dimensions

d	1.1811 in	Bore diameter
$t_{\Delta dmp}$	-10 – 0 μm	Deviation limits of mid-range bore diameter
D	2.4409 in	Outside diameter
$t_{\Delta Dmp}$	-13 – 0 μm	Deviation limits of mid-range outside diameter
B	0.7874 in	Width
$t_{\Delta Bs}$	-60 – 0 μm	Deviation limits of ring width
d_2	≈ 1.4803 in	Shoulder diameter of inner ring
D_1	≈ 2.0866 in	Shoulder/recess diameter of outer ring
b	0.1457 in	Width of lubrication groove
K	0.0787 in	Diameter of lubrication hole
$r_{1,2}$	min. 0.0394 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 1.4016 in	Diameter of shaft abutment
D_a	max. 2.2205 in	Diameter of housing abutment
r_a	max. 0.0394 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	14 860 lbf
Basic static load rating	C_0	13 151 lbf
Fatigue load limit	P_u	1 439 lbf
Reference speed		10 000 r/min
Limiting speed		14 000 r/min
Limiting value	e	0.31
Calculation factor	Y_1	2.2
Calculation factor	Y_2	3.3
Calculation factor	Y_0	2.2

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	4 μm
Maximum run-out of inner ring side face to the bore	t_{Sd}	8 μm
Range of section height at outer ring of assembled bearing	t_{Kea}	8 μm
Perpendicularity of outer ring outside surface	t_{SD}	4 μm
ISO tolerance class for geometrical tolerances		P5

Radial internal clearance

Minimum initial clearance	0.001 in
Maximum initial clearance	0.0016 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		SimPro Quick
General bearing specifications	Principles of rolling bearing selection	SKF Product select - Select and evaluate bearing
Loads	General bearing knowledge	SKF Product select - Combine housing with bearing
Temperature limits	Bearing selection process	LubeSelect for SKF greases
Permissible speed	Bearing failure and how to prevent it	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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