

## 22310 E

- Popular item  
- SKF Explorer

### Spherical roller bearings

#### Bearing data

[Tolerances,](#)

Normal, P6, P5, tapered bore 1:12,  
tapered bore 1:30,

[Radial internal clearance,](#)

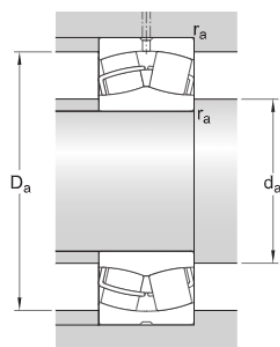
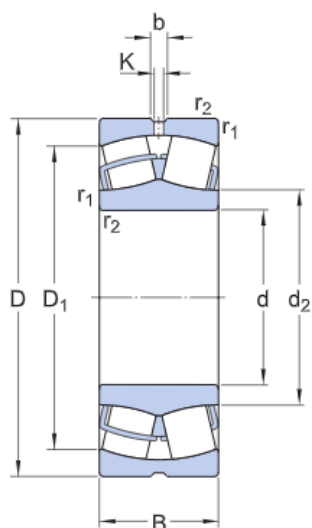
cylindrical bore, tapered bore

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

### Technical specification



#### DIMENSIONS

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
d <sub>2</sub>	≈ 63.9 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 91.9 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
K	3 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 2 mm	Chamfer dimension

#### ABUTMENT DIMENSIONS

d <sub>e</sub>	min. 61 mm	Diameter of shaft abutment
D <sub>i</sub>	max. 99 mm	Diameter of housing abutment
r <sub>a</sub>	max. 2 mm	Radius of fillet

## CALCULATION DATA

Basic dynamic load rating	C	228 kN
Basic static load rating	C <sub>0</sub>	224 kN
Fatigue load limit	P <sub>u</sub>	24 kN
Reference speed		4 800 r/min
Limiting speed		6 300 r/min
Limiting value	e	0.37
Axial load factor	Y <sub>1</sub>	1.8
Axial load factor	Y <sub>2</sub>	2.7
Axial load factor	Y <sub>0</sub>	1.8

## MASS

Mass	1.85 kg
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## More information

Product details	Engineering information	Tools
<a href="#">Designs and variants</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">SimPro Quick</a>
<a href="#">Bearing data</a>	<a href="#">General bearing knowledge</a>	<a href="#">Bearing Select</a>
<a href="#">Loads</a>	<a href="#">Bearing selection process</a>	<a href="#">Engineering Calculator</a>
<a href="#">Temperature limits</a>	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Housing Select</a>
<a href="#">Permissible speed</a>		<a href="#">LubeSelect for SKF greases</a>
<a href="#">Design considerations</a>		<a href="#">Drive-up Method Program</a>
<a href="#">Mounting</a>		<a href="#">Heater selection tool</a>
<a href="#">Designation system</a>		<a href="#">Oil Injection Method Program</a>
		<a href="#">Rolling bearings mounting and dismounting instructions</a>
		<a href="#">Tool and Accessory Selector for sleeves and shafts</a>

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