



# 249/1180 CAF/W33

SKF Explorer

## Spherical roller bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

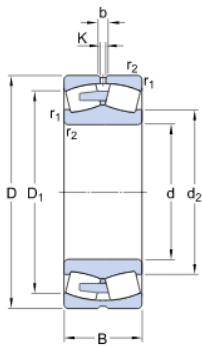
cylindrical bore, tapered bore

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

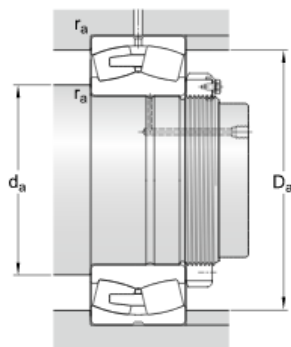
[Tolerances and resultant fit](#)

## Technical specification



## DIMENSIONS

d	1180 mm
D	1540 mm
B	355 mm
d <sub>2</sub>	≈ 1297 mm
D <sub>1</sub>	≈ 1422 mm
b	22.3 mm
K	12 mm
r <sub>1,2</sub>	min. 7.5 mm



## ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 1208 mm
D <sub>a</sub>	max. 1512 mm
r <sub>a</sub>	max. 6 mm

## CALCULATION DATA

Basic dynamic load rating	C	15751 kN
Basic static load rating	C <sub>0</sub>	40500 kN
Fatigue load limit	P <sub>u</sub>	2160 kN
Reference speed		130 r/min
Limiting speed		240 r/min
Calculation factor	e	0.2
Calculation factor	Y <sub>1</sub>	3.4
Calculation factor	Y <sub>2</sub>	5
Calculation factor	Y <sub>0</sub>	3.2

## MASS

Mass bearing	1765 kg
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More information

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

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