



# 1216 K Self-aligning ball

## bearings

Popular item

### Self-aligning ball bearings

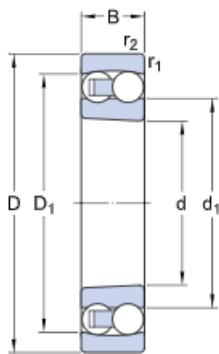
#### Bearing data

[Tolerances](#),  
Normal, JS7,  
[Radial internal clearance](#),  
table

#### Bearing interfaceS

[Seat tolerances for standard conditions](#),  
[Tolerances and resultant fits table](#)

### Technical specification

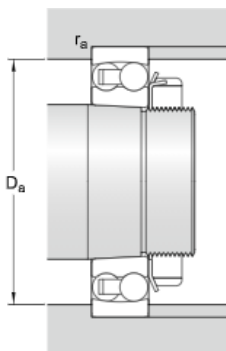


#### DIMENSIONS

d	80 mm
D	140 mm
B	26 mm
d <sub>1</sub>	≈ 102 mm
D <sub>1</sub>	≈ 122.6 mm
r <sub>1,2</sub>	min. 2 mm
Tapered bore, taper 1:12	

#### ABUTMENT DIMENSIONS

D <sub>a</sub>	max. 129 mm
r <sub>a</sub>	max. 2 mm



## CALCULATION DATA

Basic dynamic load rating	C	39.7 kN
Basic static load rating	C <sub>0</sub>	17 kN
Fatigue load limit	P <sub>u</sub>	0.83 kN
Reference speed		9 500 r/min
Limiting speed		6 000 r/min
Permissible angular misalignment	α	2.5 °
Calculation factor	k <sub>r</sub>	0.04
Calculation factor	e	0.16
Calculation factor	Y <sub>0</sub>	4
Calculation factor	Y <sub>1</sub>	3.9
Calculation factor	Y <sub>2</sub>	6.1

## MASS

Mass bearing		1.6 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="#">Bearing Select</a>
<a href="#">Bearing data</a>	<a href="#">General bearing knowledge</a>	<a href="#">SimPro Quick</a>
<a href="#">Loads</a>	<a href="#">Bearing selection process</a>	<a href="#">Engineering Calculator</a>
<a href="#">Temperature limits</a>	<a href="#">Bearing interfaces</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">Permissible speed</a>	<a href="#">Seat tolerances for standard conditions</a>	<a href="#">Heater selection tool</a>
<a href="#">Design considerations</a>	<a href="#">Selecting internal clearance</a>	<a href="#">Drive-up Method Program</a>
<a href="#">Mounting</a>	<a href="#">Lubrication</a>	<a href="#">Oil Injection Method Program</a>
<a href="#">Designation system</a>	<a href="#">Sealing, mounting and dismantling</a>	<a href="#">Tool and Accessory Selector for sleeves and shafts</a>
	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Housing Select</a>
		<a href="#">Rolling bearings mounting and dismantling instructions</a>

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