



# 316011

## Cylindrical roller bearings, single row

### Bearing data

#### Tolerances,

Normal (metric), P6, Normal (inch),

#### Radial internal clearance,

cylindrical bore, tapered bore,

#### Axial internal clearance,

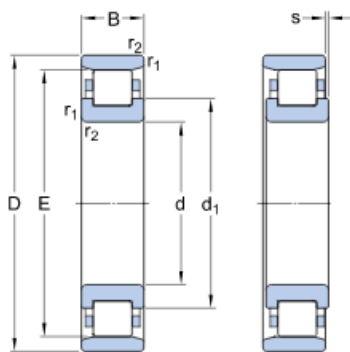
NUP, NJ + HJ

### Bearing interfaces

#### Seat tolerances for standard conditions,

#### Tolerances and resultant fit

## Technical specification

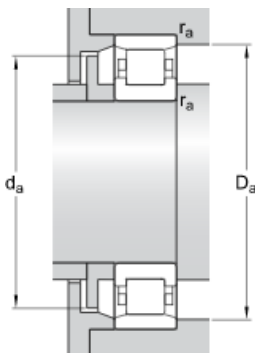


### DIMENSIONS

d	440 mm
D	540 mm
B	40 mm
d <sub>1</sub>	≈ 479 mm
E	511 mm
r <sub>1,2</sub>	min. 2.1 mm
s	max. 5.3 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 450 mm
d <sub>a</sub>	max. 506 mm
D <sub>a</sub>	min. 512 mm
D <sub>a</sub>	max. 530 mm
r <sub>a</sub>	max. 2 mm



## CALCULATION DATA

Basic dynamic load rating	C	292 kN
Basic static load rating	$C_0$	610 kN
Fatigue load limit	$P_u$	39 kN
Reference speed		2600 r/min
Limiting speed		1500 r/min
Calculation factor	$k_r$	0.03
Limiting value	e	0.2
Axial load factor	Y	

## MASS

Mass bearing		18.5 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="#">LubeSelect for SKF greases</a>	<a href="#">LubeSelect for SKF greases</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="#">Heater selection tool</a>	<a href="#">Heater selection tool</a>
<a href="#">Design considerations</a>	<a href="#">Design considerations</a>			<a href="#">Oil Injection Method Program</a>	<a href="#">Oil Injection Method Program</a>
<a href="#">Designation system</a>	<a href="#">Designation system</a>			<a href="#">Rolling bearings mounting and dismounting instructions</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>

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