

# NU 315 ECP/VL0241

- Popular item

## INSOCOAT cylindrical roller bearings, single row

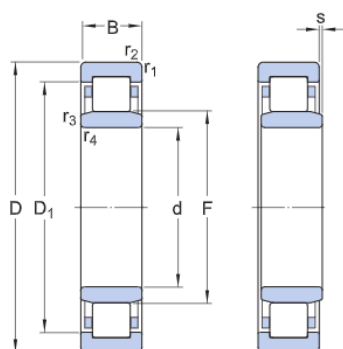
### Bearing data

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

### Bearing interfaces

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

## Technical specification

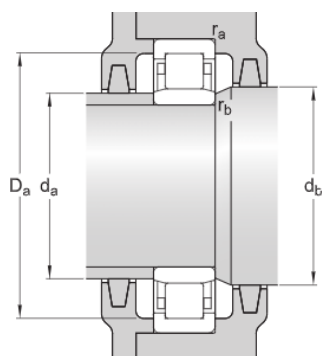


### DIMENSIONS

d	75 mm	Bore diameter
D	160 mm	Outside diameter
B	37 mm	Width
D <sub>1</sub>	≈ 136 mm	Shoulder diameter outer ring
F	95 mm	Raceway diameter inner ring
s	max. 1.8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
r <sub>1,2</sub>	min. 2.1 mm	Chamfer dimension
r <sub>3,4</sub>	min. 2.1 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 87 mm	Abutment diameter shaft
d <sub>a</sub>	max. 92 mm	Abutment diameter shaft
d <sub>b</sub>	min. 97 mm	Abutment diameter shaft
D <sub>a</sub>	min. 141 mm	Abutment diameter shaft
D <sub>a</sub>	max. 148 mm	Abutment diameter housing



$r_a$	max. 2 mm	Fillet radius
$r_b$	max. 2 mm	Fillet radius

## CALCULATION DATA

Basic dynamic load rating	C	280 kN
Basic static load rating	$C_0$	265 kN
Fatigue load limit	$P_u$	33.5 kN
Reference speed		4 500 r/min
Limiting speed		5 300 r/min
Calculation factor	$k_T$	0.15

## MASS

Mass bearing		3.9 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="#">Engineering Calculator</a>
<a href="#">Loads</a>	<a href="#">Bearing selection process</a>	<a href="#">SimPro Quick</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="#">Rolling bearings mounting and dismounting instructions</a>
<a href="#">Mounting</a>	<a href="#">Lubrication</a>	
<a href="#">Designation system</a>	<a href="#">External sealing, mounting and dismounting</a>	
	<a href="#">Bearing failure and how to prevent it</a>	

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