

# NUP 311 ECML

SKF Explorer

## Cylindrical roller bearings, single row

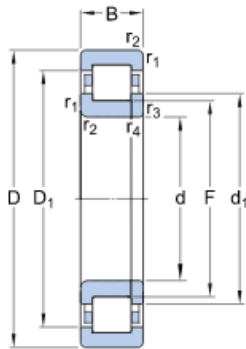
### Bearing data

[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	55 mm
D	120 mm
B	29 mm
d <sub>1</sub>	≈ 77.5 mm
D <sub>1</sub>	≈ 101 mm
F	70.5 mm
r <sub>1,2</sub>	min. 2 mm
r <sub>3,4</sub>	min. 2 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 65 mm
d <sub>b</sub>	min. 80 mm
D <sub>a</sub>	max. 109.2 mm
r <sub>a</sub>	max. 2 mm



## CALCULATION DATA

Basic dynamic load rating	C	156 kN
Basic static load rating	$C_0$	143 kN
Fatigue load limit	$P_u$	18.6 kN
Reference speed		6000 r/min
Limiting speed		11000 r/min
Calculation factor	$k_f$	0.23
Limiting value	e	0.2
Axial load factor	Y	0.6

## MASS

Mass bearing		1.74 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="#">Bearing selection process</a>	<a href="#">Bearing selection process</a>	<a href="#">Engineering Calculator</a>	<a href="#">Engineering Calculator</a>
<a href="#">Temperature limits</a>	<a href="#">Temperature limits</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="#">Permissible speed</a>	<a href="#">Permissible speed</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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