



# NUP 205 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,](#)

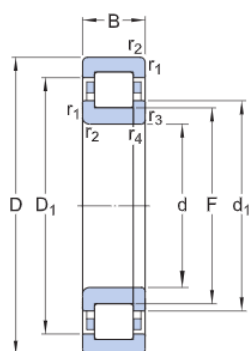
NUP, NJ + HJ

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

## Technical specification

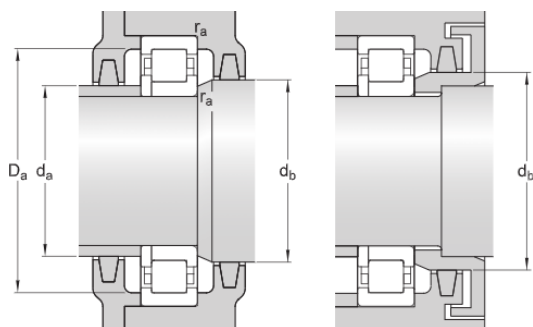


### DIMENSIONS

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d1	≈34.7 mm	Shoulder diameter of inner ring
D1	≈43.8 mm	Shoulder diameter of outer ring
F	31.5 mm	Chamfer dimension of loose flange ring
r1,2	min.1 mm	Chamfer dimension
r3,4	min.0.6 mm	Chamfer dimension of loose flange ring

### ABUTMENT DIMENSIONS

da	min.29.9 mm	Diameter of spacer sleeve
db	min.36 mm	Diameter of shaft abutment
Da	max.46.4 mm	Diameter of housing abutment
ra	max.1 mm	Radius of fillet



## CALCULATION DATA

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C <sub>0</sub>	27 kN
Fatigue load limit	P <sub>u</sub>	3.35 kN
Reference speed		15 000 r/min
Limiting speed		26 000 r/min
Minimum load factor	k <sub>r</sub>	0.23
Limiting value	e	0.2
Axial load factor	Y	0.6

## MASS

Mass	0.17 kg
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## More information

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