



NJ 209 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	45 mm
D	85 mm
B	19 mm
d ₁	≈ 59 mm
D ₁	≈ 72.95 mm
F	54.5 mm
r _{1,2}	min. 1.1 mm
r _{3,4}	min. 1.1 mm
s	max. 1.2 mm

ABUTMENT DIMENSIONS

d _a	min. 52 mm
d _a	max. 53 mm
d _b	min. 61 mm
D _a	max. 77.6 mm
r _a	max. 1 mm



CALCULATION DATA

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C ₀	64 kN
Fatigue load limit	P _u	8.15 kN
Reference speed		9000 r/min
Limiting speed		15000 r/min
Calculation factor	k _r	0.23
Limiting value	e	0.2
Axial load factor	Y	0.6

MASS

Mass bearing	0.49 kg
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ASSOCIATED PRODUCTS

Angle ring	HJ 209 EC
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More information

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

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