

N 312 ECJ

SKF Explorer

Cylindrical roller bearings, single row

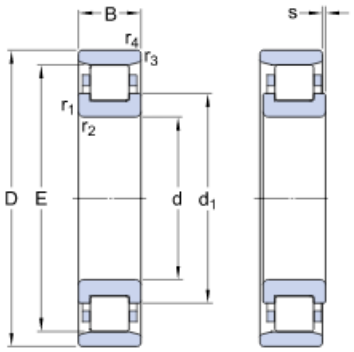
Bearing data

Tolerances,
Normal (metric), P6, Normal (inch),
Radial internal clearance,
cylindrical bore, tapered bore,
Axial internal clearance,
NUP, NJ + HJ

Bearing interfaces

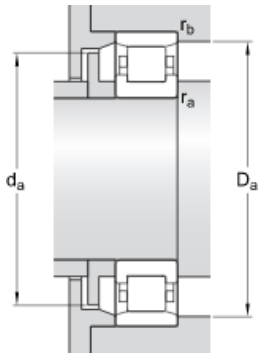
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	60 mm
D	130 mm
B	31 mm
d_1	≈ 84.3 mm
E	115 mm
$r_{1,2}$	min. 2.1 mm
$r_{3,4}$	min. 2.1 mm
s	max. 2.1 mm



ABUTMENT DIMENSIONS

d_a	min. 72 mm
d_a	max. 113 mm
D_a	min. 118 mm
D_a	max. 119 mm
r_a	max. 2 mm
r_b	max. 2 mm

CALCULATION DATA

Basic dynamic load rating	C	173 kN
Basic static load rating	C_0	160 kN
Fatigue load limit	P_u	21.2 kN
Reference speed		5600 r/min
Limiting speed		6700 r/min
Calculation factor	k_r	0.12
Limiting value	e	0.2
Axial load factor	Y	0.6

MASS

Mass bearing	1.76 kg

More information

Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

Tools

- SimPro Quick
- Bearing Select
- Engineering Calculator
- LubeSelect for SKF greases
- Heater selection tool
- Oil Injection Method Program
- Rolling bearings mounting and dismounting instructions

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