

N 315 ECM

Popular item
SKF Explorer

Cylindrical roller bearings, single row

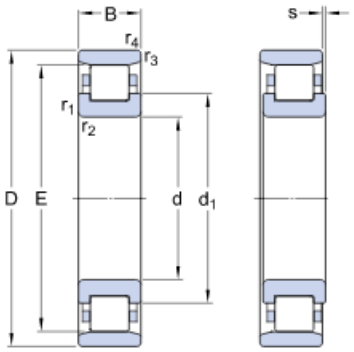
Bearing data

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

Bearing interfaces

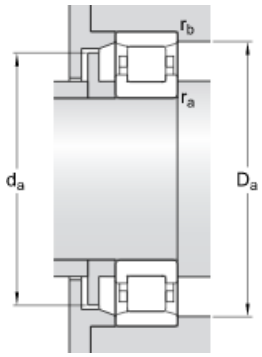
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	75 mm
D	160 mm
B	37 mm
d_1	≈ 104 mm
E	143 mm
$r_{1,2}$	min. 2.1 mm
$r_{3,4}$	min. 2.1 mm
s	max. 1.8 mm



ABUTMENT DIMENSIONS

d_a	min. 87 mm
d_a	max. 140 mm
D_a	min. 146 mm
D_a	max. 148 mm
r_a	max. 2 mm
r_b	max. 2 mm

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		4500 r/min
Limiting speed		5300 r/min
Calculation factor	k_r	0.12
Limiting value	e	0.2
Axial load factor	Y	0.6

MASS

Mass bearing	3.79 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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