



N 313 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	65 mm
Outside diameter	140 mm
Width	33 mm

Performance

Basic dynamic load rating	212 kN
Basic static load rating	196 kN
Reference speed	5 300 r/min
Limiting speed	6 000 r/min
SKF performance class	SKF Explorer

Properties

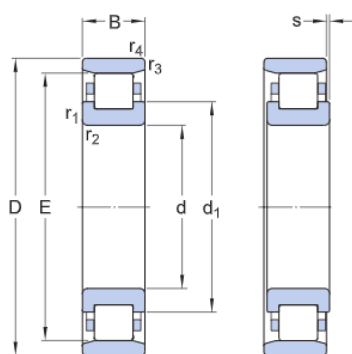
Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	0
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class

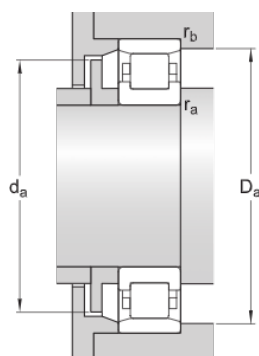
SKF Explorer

Dimensions



d	65 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
d ₁	≈ 90.5 mm	Shoulder diameter of inner ring
E	124.5 mm	Raceway diameter of outer ring
r _{1,2}	min. 2.1 mm	Chamfer dimension
r _{3,4}	min. 2.1 mm	Chamfer dimension
s	max. 2.2 mm	Permissible axial displacement

Abutment dimensions



d _a	min. 77 mm	Diameter of spacer sleeve
d _a	max. 122 mm	Diameter of spacer sleeve
D _a	min. 127 mm	Diameter of housing abutment
D _a	max. 129 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of fillet
r _b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	212 kN
Basic static load rating	C ₀	196 kN
Fatigue load limit	P _u	25.5 kN

Reference speed		5 300 r/min
Limiting speed		6 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	2.18 kg
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