N 324 ECM

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	120 mm
Outside diameter	260 mm
Width	55 mm

Performance

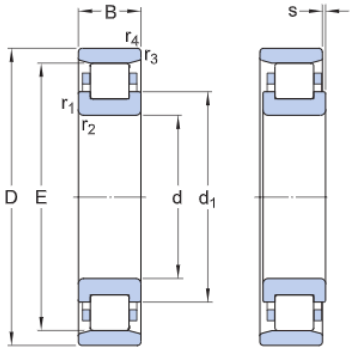
Basic dynamic load rating	610 kN
Basic static load rating	620 kN
Reference speed	2 800 r/min
Limiting speed	3 200 r/min
SKF performance class	SKF Explorer

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	Machined metal
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

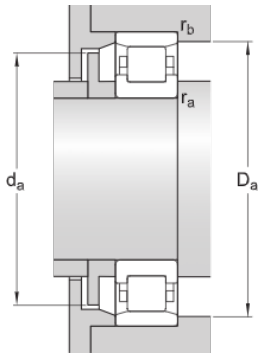
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	120 mm	Bore diameter
D	260 mm	Outside diameter
B	55 mm	Width
d_1	≈ 168 mm	Shoulder diameter of inner ring
E	230 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 3 mm	Chamfer dimension
$r_{3,4}$	min. 3 mm	Chamfer dimension
s	max. 3.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 134 mm	Diameter of spacer sleeve
d_a	max. 226 mm	Diameter of spacer sleeve
D_a	min. 235 mm	Diameter of housing abutment
D_a	max. 245 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of fillet
r_b	max. 2.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	610 kN
Basic static load rating	C_0	620 kN
Fatigue load limit	P_u	69.5 kN

Reference speed		2 800 r/min
Limiting speed		3 200 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	14.6 kg

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