

NJ 2240 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. 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
- Locate the shaft axially in one direction
- Separable design



Overview

Dimensions

Bore diameter	200 mm
Outside diameter	360 mm
Width	98 mm

Performance

Basic dynamic load rating	1 370 kN
Basic static load rating	1 800 kN
Reference speed	1 900 r/min
Limiting speed	3 200 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None

Relubrication feature

Without

Logistics

Product net weight 44.5 kg

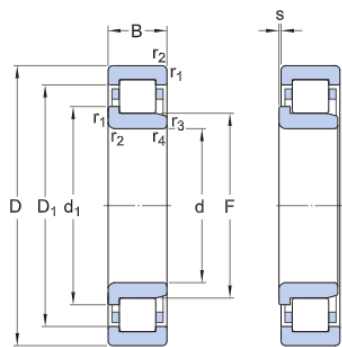
eClass code 23-05-09-01

UNSPSC code 31171505

Technical Specification

SKF performance class

SKF Explorer

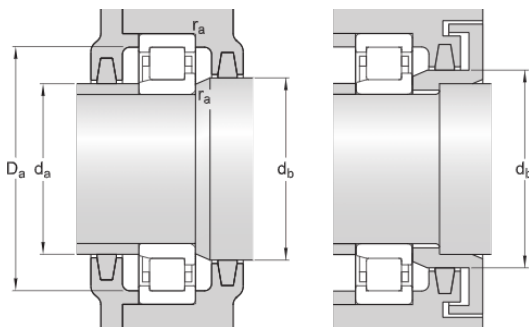


Dimensions

d	200 mm	Bore diameter
D	360 mm	Outside diameter
B	98 mm	Width
d ₁	≈ 256 mm	Shoulder diameter of inner ring
D ₁	≈ 312.9 mm	Shoulder diameter of outer ring
F	241 mm	Raceway diameter of inner ring
r _{1,2}	min. 4 mm	Chamfer dimension
r _{3,4}	min. 4 mm	Chamfer dimension
s	max. 5.1 mm	Permissible axial displacement

Abutment dimensions

d _a	min. 217 mm	Diameter of spacer sleeve
d _a	max. 236 mm	Diameter of spacer sleeve
d _b	min. 260 mm	Diameter of shaft abutment
D _a	max. 342 mm	Diameter of housing abutment
r _a	max. 3 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	1 370 kN
Basic static load rating	C ₀	1 800 kN

Fatigue load limit	P_u	180 kN
Reference speed		1 900 r/min
Limiting speed		3 200 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		43.9 kg
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