NJ 232 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	160 mm
Outside diameter	290 mm
Width	48 mm

Performance

Basic dynamic load rating	585 kN
Basic static load rating	680 kN
Reference speed	2 400 r/min
Limiting speed	4 000 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

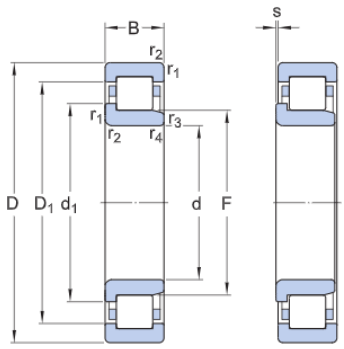
Relubrication feature	Without

Logistics

Product net weight	14.4 kg
eClass code	23-05-09-01
UNSPSC code	31171505

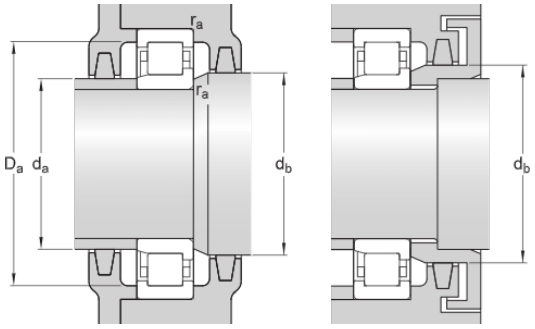
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	160 mm	Bore diameter
D	290 mm	Outside diameter
B	48 mm	Width
d_1	≈ 206 mm	Shoulder diameter of inner ring
D_1	≈ 249.6 mm	Shoulder diameter of outer ring
F	195 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 3 mm	Chamfer dimension
$r_{3,4}$	min. 3 mm	Chamfer dimension
s	max. 2.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 175 mm	Diameter of spacer sleeve
d_a	max. 191 mm	Diameter of spacer sleeve
d_b	min. 210 mm	Diameter of shaft abutment
D_a	max. 274.2 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	585 kN
Basic static load rating	C_0	680 kN

Fatigue load limit	P_u	72 kN
Reference speed		2 400 r/min
Limiting speed		4 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	14.4 kg

Associated products

Angle ring	HJ 232 EC

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