



Image may differ from product. See technical specification for details.

N 308 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	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Reference speed	8 000 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

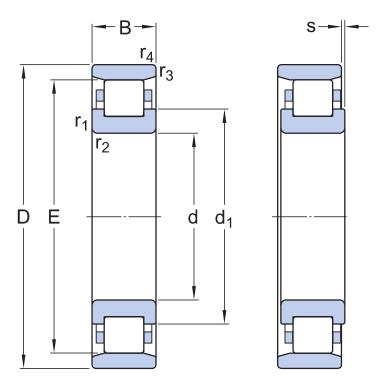
Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	0
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Tolerance class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

Logistics

Product net weight	0.65 kg
eClass code	23-05-09-01

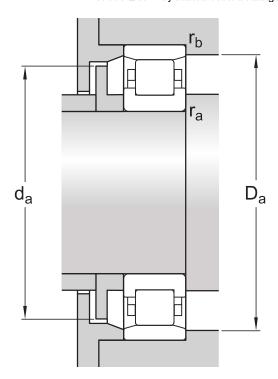
UNSPSC code 31171505

Technical specification



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
В	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
E	80 mm	Raceway diameter of outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension
r _{3,4}	min. 1.5 mm	Chamfer dimension
S	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d _a	min. 48 mm	Diameter of spacer sleeve
d _a	max. 78 mm	Diameter of spacer sleeve
D _a	min. 82 mm	Diameter of housing abutment
D _a	max. 83.2 mm	Diameter of housing abutment
r _a	max. 1.5 mm	Radius of fillet
r _b	max. 1.5 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	93 kN
Basic static load rating	C ₀	78 kN
Fatigue load limit	P _u	10.2 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k _r	0.12
Limiting value	е	0.2
Calculation factor	Υ	0.6

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- 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

More Information

Product details	Engineering information	Tools
Designs and variants		SimPro Quick
General bearing specifications	Principles of rolling bearing selection	SKF Product select
Loads	General bearing knowledge	Bearing Frequency Calculator
Temperature limits	Bearing selection process	LubeSelect for SKF greases
Permissible speed	Bearing failure and how to prevent it	Heater selection tool
Design considerations	_	Oil Injection Method Program
Designation system		
Dooignation dystein	_	



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