

NU 1005

Single row cylindrical roller bearing, NU 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 no flanges on the inner ring, NU 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	25 mm
Outside diameter	47 mm
Width	12 mm

Performance

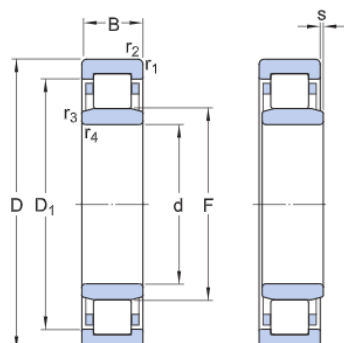
Basic dynamic load rating	14.2 kN
Basic static load rating	13.2 kN
Reference speed	18 000 r/min
Limiting speed	18 000 r/min

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	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

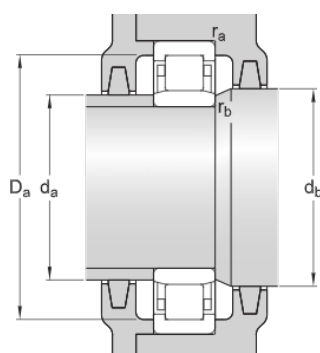
Technical Specification

Dimensions



d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
D ₁	≈ 38.8 mm	Shoulder diameter of outer ring
F	30.5 mm	Raceway diameter of inner ring
r _{1,2}	min. 0.6 mm	Chamfer dimension
r _{3,4}	min. 0.3 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement

Abutment dimensions



d _a	min. 27.1 mm	Diameter of spacer sleeve
d _a	max. 29.5 mm	Diameter of spacer sleeve
d _b	min. 32 mm	Diameter of shaft abutment
D _a	max. 43.1 mm	Diameter of housing abutment
r _a	max. 0.6 mm	Radius of fillet
r _b	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	14.2 kN
Basic static load rating	C ₀	13.2 kN
Fatigue load limit	P _u	1.4 kN
Reference speed		18 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k _r	0.1
Limiting value	e	0.2

Calculation factor	Y	0.6
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Mass

Mass	0.082 kg
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