

# NU 2328 ECML Single row

## cylindrical roller bearing, NU design

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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    | 140 mm |
| Outside diameter | 300 mm |
| Width            | 102 mm |

### Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 1 200 kN     |
| Basic static load rating  | 1 430 kN     |
| Reference speed           | 2 400 r/min  |
| Limiting speed            | 4 300 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        | 2                  |
| Number of flanges, inner ring        | 0                  |
| Loose flange                         | None               |
| Radial internal clearance            | CN                 |
| Tolerance class                      | Normal             |
| Coating                              | Without            |
| Sealing                              | Without            |

Lubricant

None

Relubrication feature

Without

# Technical Specification

SKF performance class

SKF Explorer



## Dimensions

|           |                    |                                 |
|-----------|--------------------|---------------------------------|
| d         | 140 mm             | Bore diameter                   |
| D         | 300 mm             | Outside diameter                |
| B         | 102 mm             | Width                           |
| $D_1$     | $\approx 251.7$ mm | Shoulder diameter of outer ring |
| F         | 180 mm             | Raceway diameter of inner ring  |
| $r_{1,2}$ | min. 4 mm          | Chamfer dimension               |
| $r_{3,4}$ | min. 4 mm          | Chamfer dimension               |
| s         | max. 9.7 mm        | Permissible axial displacement  |

## Abutment dimensions

|       |               |                              |
|-------|---------------|------------------------------|
| $d_a$ | min. 157 mm   | Diameter of spacer sleeve    |
| $d_a$ | max. 175 mm   | Diameter of spacer sleeve    |
| $d_b$ | min. 183 mm   | Diameter of shaft abutment   |
| $D_a$ | max. 282.5 mm | Diameter of housing abutment |
| $r_a$ | max. 3 mm     | Radius of fillet             |
| $r_b$ | max. 3 mm     | Radius of fillet             |



## Calculation data

|                           |       |          |
|---------------------------|-------|----------|
| Basic dynamic load rating | C     | 1 200 kN |
| Basic static load rating  | $C_0$ | 1 430 kN |
| Fatigue load limit        | $P_u$ | 150 kN   |

|                     |          |             |
|---------------------|----------|-------------|
| Reference speed     |          | 2 400 r/min |
| Limiting speed      |          | 4 300 r/min |
| Minimum load factor | $k_r$    | 0.38        |
| Limiting value      | $e$      | 0.3         |
| Calculation factor  | $\gamma$ | 0.4         |

## Mass

|      |  |         |
|------|--|---------|
| Mass |  | 35.9 kg |
|------|--|---------|

## Associated products

|            |  |            |
|------------|--|------------|
| Angle ring |  | HJ 2328 EC |
|------------|--|------------|

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