

NU 2968 M

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



| Dimensions       |             |                                 |
|------------------|-------------|---------------------------------|
| d                | 340 mm      | Bore diameter                   |
| D                | 460 mm      | Outside diameter                |
| B                | 72 mm       | Width                           |
| D <sub>1</sub>   | ≈ 417 mm    | Shoulder diameter of outer ring |
| F                | 373 mm      | Raceway diameter of inner ring  |
| r <sub>1,2</sub> | min. 3 mm   | Chamfer dimension               |
| s                | max. 8.5 mm | Permissible axial displacement  |



| Abutment dimensions |             |                              |
|---------------------|-------------|------------------------------|
| d <sub>a</sub>      | min. 353 mm | Diameter of spacer sleeve    |
| d <sub>a</sub>      | max. 369 mm | Diameter of spacer sleeve    |
| d <sub>b</sub>      | min. 377 mm | Diameter of shaft abutment   |
| D <sub>a</sub>      | max. 447 mm | Diameter of housing abutment |
| r <sub>a</sub>      | max. 2.5 mm | Radius of fillet             |

## Calculation data

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 809 kN      |
| Basic static load rating  | C <sub>0</sub> | 1 660 kN    |
| Fatigue load limit        | P <sub>u</sub> | 153 kN      |
| Reference speed           |                | 1 400 r/min |
| Limiting speed            |                | 1 400 r/min |
| Minimum load factor       | k <sub>r</sub> | 0.07        |
| Limiting value            | e              | 0.3         |
| Calculation factor        | Y              | 0           |

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal ( $\circ$ ), 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