

## NU 3196 ECMA/HB1

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                | 480 mm      | Bore diameter                   |
| D                | 790 mm      | Outside diameter                |
| B                | 248 mm      | Width                           |
| D <sub>1</sub>   | ≈ 699 mm    | Shoulder diameter of outer ring |
| F                | 547 mm      | Raceway diameter of inner ring  |
| r <sub>1,2</sub> | min. 7.5 mm | Chamfer dimension               |
| s                | max. 16 mm  | Permissible axial displacement  |



| Abutment dimensions |             |                              |
|---------------------|-------------|------------------------------|
| d <sub>a</sub>      | min. 512 mm | Diameter of spacer sleeve    |
| d <sub>a</sub>      | max. 536 mm | Diameter of spacer sleeve    |
| d <sub>b</sub>      | min. 552 mm | Diameter of shaft abutment   |
| D <sub>a</sub>      | max. 758 mm | Diameter of housing abutment |
| r <sub>a</sub>      | max. 6 mm   | Radius of fillet             |

## Calculation data

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 5 940 kN    |
| Basic static load rating  | C <sub>0</sub> | 10 800 kN   |
| Fatigue load limit        | P <sub>u</sub> | 800 kN      |
| Reference speed           |                | 630 r/min   |
| Limiting speed            |                | 1 100 r/min |
| Minimum load factor       | k <sub>r</sub> | 0.21        |
| Limiting value            | e              | 0.3         |
| Calculation factor        | Y              | 0           |

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (), 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