

NCF 2948 CV

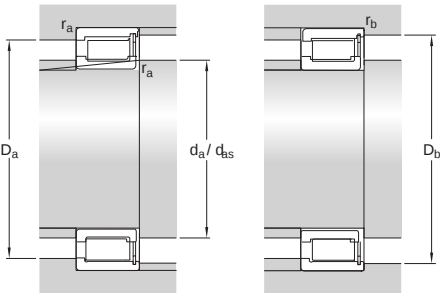
Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.



- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction



| Dimensions       |             |                                                                                                   |
|------------------|-------------|---------------------------------------------------------------------------------------------------|
| d                | 240 mm      | Bore diameter                                                                                     |
| D                | 320 mm      | Outside diameter                                                                                  |
| B                | 48 mm       | Width                                                                                             |
| d <sub>1</sub>   | ≈ 267 mm    | Shoulder diameter inner ring                                                                      |
| D <sub>1</sub>   | ≈ 294 mm    | Shoulder diameter outer ring                                                                      |
| E                | 303 mm      | Raceway diameter outer ring                                                                       |
| s                | max. 3 mm   | Permissible axial displacement from the normal position of one bearing ring relative to the other |
| r <sub>1,2</sub> | min. 2.1 mm | Chamfer dimension                                                                                 |
| r <sub>3,4</sub> | min. 1.5 mm | Chamfer dimension                                                                                 |



| Abutment dimensions |             |                           |
|---------------------|-------------|---------------------------|
| d <sub>a</sub>      | min. 251 mm | Abutment diameter shaft   |
| d <sub>as</sub>     | 263 mm      | Abutment diameter shaft   |
| D <sub>a</sub>      | max. 309 mm | Abutment diameter housing |
| D <sub>b</sub>      | max. 311 mm | Abutment diameter housing |
| r <sub>a</sub>      | max. 2 mm   | Fillet radius             |
| r <sub>b</sub>      | max. 1.5 mm | Fillet radius             |

| Calculation data          |                |             |
|---------------------------|----------------|-------------|
|                           |                |             |
| Basic dynamic load rating | C              | 583 kN      |
| Basic static load rating  | C <sub>0</sub> | 1 140 kN    |
| Fatigue load limit        | P <sub>u</sub> | 114 kN      |
| Reference speed           |                | 850 r/min   |
| Limiting speed            |                | 1 100 r/min |
| Calculation factor        | k <sub>r</sub> | 0.2         |
| Limiting value            | e              | 0.3         |
| Calculation factor        | Y              | 0.4         |
|                           |                |             |
| Tolerances and clearances |                |             |

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal
- Radial internal clearance: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit