

BT1B 332787/HA4



Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Dimension series

4GC



| Dimensions       |             |                                      |
|------------------|-------------|--------------------------------------|
| d                | 680 mm      | Bore diameter                        |
| D                | 1 000 mm    | Outside diameter                     |
| T                | 190 mm      | Total width                          |
| d <sub>1</sub>   | ≈ 829.52 mm | Shoulder diameter of inner ring      |
| B                | 188 mm      | Width of inner ring                  |
| C                | 140 mm      | Width of outer ring                  |
| r <sub>1,2</sub> | min. 6 mm   | Chamfer dimension of inner ring      |
| r <sub>3,4</sub> | min. 6 mm   | Chamfer dimension of outer ring      |
| a                | 200 mm      | Distance side face to pressure point |



Abutment dimensions

|       |             |                                                               |
|-------|-------------|---------------------------------------------------------------|
| $d_a$ | max. 742 mm | Diameter of shaft abutment                                    |
| $d_b$ | min. 706 mm | Diameter of shaft abutment                                    |
| $D_a$ | min. 884 mm | Diameter of housing abutment                                  |
| $D_a$ | max. 974 mm | Diameter of housing abutment                                  |
| $D_b$ | min. 953 mm | Diameter of housing abutment                                  |
| $C_a$ | min. 27 mm  | Minimum width of space required in housing on large side face |
| $C_b$ | min. 50 mm  | Minimum width of space required in housing on small side face |
| $r_a$ | max. 5 mm   | Radius of shaft fillet                                        |
| $r_b$ | max. 5 mm   | Radius of housing fillet                                      |

Calculation data

|                           |       |           |
|---------------------------|-------|-----------|
| Basic dynamic load rating | C     | 5 610 kN  |
| Basic static load rating  | $C_0$ | 12 700 kN |
| Fatigue load limit        | $P_u$ | 800 kN    |
| Reference speed           |       | 360 r/min |
| Limiting speed            |       | 500 r/min |
| Limiting value            | e     | 0.43      |
| Calculation factor        | Y     | 1.4       |
| Calculation factor        | $Y_0$ | 0.8       |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances:

bearings: Normal and CL7C, CLN

inch bearings: Normal and CL, deviating width

## BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

AGA BEARINGS