

30322



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

2GB



| Dimensions       |             |                                      |
|------------------|-------------|--------------------------------------|
| d                | 110 mm      | Bore diameter                        |
| D                | 240 mm      | Outside diameter                     |
| T                | 54.5 mm     | Total width                          |
| d <sub>1</sub>   | ≈ 166.18 mm | Shoulder diameter of inner ring      |
| B                | 50 mm       | Width of inner ring                  |
| C                | 42 mm       | Width of outer ring                  |
| r <sub>1,2</sub> | min. 4 mm   | Chamfer dimension of inner ring      |
| r <sub>3,4</sub> | min. 3 mm   | Chamfer dimension of outer ring      |
| a                | 42.9 mm     | Distance side face to pressure point |



### Abutment dimensions

|       |               |                                                               |
|-------|---------------|---------------------------------------------------------------|
| $d_a$ | max. 142 mm   | Diameter of shaft abutment                                    |
| $d_b$ | min. 126.5 mm | Diameter of shaft abutment                                    |
| $D_a$ | min. 206 mm   | Diameter of housing abutment                                  |
| $D_a$ | max. 226.5 mm | Diameter of housing abutment                                  |
| $D_b$ | min. 220 mm   | Diameter of housing abutment                                  |
| $C_a$ | min. 8 mm     | Minimum width of space required in housing on large side face |
| $C_b$ | min. 12.5 mm  | Minimum width of space required in housing on small side face |
| $r_a$ | max. 4 mm     | Radius of shaft fillet                                        |
| $r_b$ | max. 3 mm     | Radius of housing fillet                                      |

### Calculation data

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 507 kN      |
| Basic static load rating  | $C_0$ | 585 kN      |
| Fatigue load limit        | $P_u$ | 62 kN       |
| Reference speed           |       | 2 200 r/min |
| Limiting speed            |       | 2 800 r/min |
| Limiting value            | e     | 0.35        |
| Calculation factor        | Y     | 1.7         |
| Calculation factor        | $Y_0$ | 0.9         |

### 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