

YET 209



Insert bearings are based on sealed deep groove ball bearings. This variant is intended for use in applications where the direction of rotation is constant. It has a narrow inner ring extended on one side, with an eccentric locking collar, enabling quick and easy mounting onto the shaft.

- Designed for rotation in one direction
- Quick and easy to mount onto the shaft
- Long service life
- Reduce noise and vibration levels



| Dimensions       |           |                                                          |
|------------------|-----------|----------------------------------------------------------|
| d                | 45 mm     | Bore diameter                                            |
| D                | 85 mm     | Outside diameter                                         |
| B <sub>1</sub>   | 43.7 mm   | Overall bearing width                                    |
| B                | 30.2 mm   | Width of inner ring                                      |
| C                | 22 mm     | Width of outer ring                                      |
| d <sub>1</sub>   | ≈ 56.8 mm | Outside diameter of inner ring                           |
| d <sub>2</sub>   | 62 mm     | Outside diameter of locking collar                       |
| B <sub>4</sub>   | 6.75 mm   | Distance from side face to thread centre                 |
| r <sub>1,2</sub> | min. 1 mm | Chamfer dimension of inner ring                          |
| s <sub>1</sub>   | 32.7 mm   | Distance from locking device side face to raceway centre |

Calculation data

|                           |                |          |
|---------------------------|----------------|----------|
| Basic dynamic load rating | C              | 33.2 kN  |
| Basic static load rating  | C <sub>0</sub> | 21.6 kN  |
| Fatigue load limit        | P <sub>u</sub> | 0.915 kN |

|                |             |
|----------------|-------------|
| Limiting speed | 4 300 r/min |
|----------------|-------------|

Limiting speed with shaft  
tolerance h6

|                    |       |    |
|--------------------|-------|----|
| Calculation factor | $f_0$ | 14 |
|--------------------|-------|----|

## Mounting information

|           |                |       |
|-----------|----------------|-------|
| Set screw | G <sub>2</sub> | M10x1 |
|-----------|----------------|-------|

|                                  |   |      |
|----------------------------------|---|------|
| Hexagonal key size for set screw | N | 5 mm |
|----------------------------------|---|------|

|                                             |          |
|---------------------------------------------|----------|
| Recommended tightening torque for set screw | 16.5 N·m |
|---------------------------------------------|----------|

## Associated products

|                     |           |
|---------------------|-----------|
| Rubber seating ring | RIS 209 A |
|---------------------|-----------|

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1, table 2
- Radial internal clearance: Standard inner ring, Other bearings

### BEARING INTERFACES

- Shaft tolerances