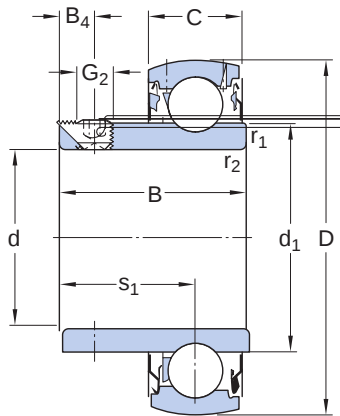


YAT 211-203



Insert bearings are based on sealed deep groove ball bearings. This variant of insert bearing is suitable for applications with both constant and alternating directions of rotation. It has an inner ring extended on one side, and is locked onto the shaft by tightening two (set) screws on the inner ring.

- Quick and easy to mount onto the shaft
- Long service life
- Reduce noise and vibration levels



| Dimensions       |            |                                                          |
|------------------|------------|----------------------------------------------------------|
| d                | 55.563 mm  | Bore diameter                                            |
| D                | 100 mm     | Outside diameter                                         |
| B                | 45 mm      | Width of inner ring                                      |
| C                | 25 mm      | Width of outer ring                                      |
| d <sub>1</sub>   | ≈ 69.06 mm | Outside diameter of inner ring                           |
| B <sub>4</sub>   | 9 mm       | Distance face to thread centre                           |
| r <sub>1,2</sub> | min. 1 mm  | Chamfer dimension of inner ring                          |
| s <sub>1</sub>   | 32.5 mm    | Distance from locking device side face to raceway centre |

Calculation data

|                           |                |                                        |
|---------------------------|----------------|----------------------------------------|
| Basic dynamic load rating | C              | 43.6 kN                                |
| Basic static load rating  | C <sub>0</sub> | 29 kN                                  |
| Fatigue load limit        | P <sub>u</sub> | 1.25 kN                                |
| Limiting speed            |                | 3 600 r/min                            |
|                           |                | Limiting speed with shaft tolerance h6 |

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

Mounting information

|                                             |       |            |
|---------------------------------------------|-------|------------|
| Set screw                                   | $G_2$ | 3/8-24 UNF |
| Hexagonal key size for set screw            | N     | 4.763 mm   |
| Recommended tightening torque for set screw |       | 16.5 N·m   |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

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

BEARING INTERFACES

- Shaft tolerances