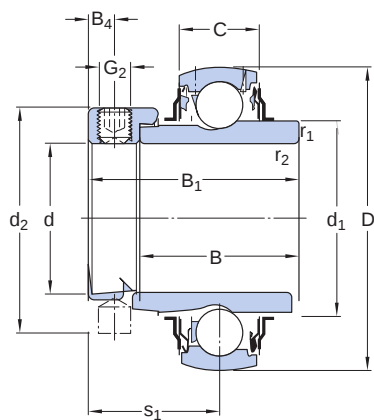


YEL 210-2F



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 an inner ring extended on both sides, with an eccentric locking collar, enabling quick and easy mounting onto the shaft.

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



| Dimensions       |            |                                                          |
|------------------|------------|----------------------------------------------------------|
| d                | 50 mm      | Bore diameter                                            |
| D                | 90 mm      | Outside diameter                                         |
| B <sub>1</sub>   | 62.7 mm    | Overall bearing width                                    |
| B                | 49.2 mm    | Width of inner ring                                      |
| C                | 22 mm      | Width of outer ring                                      |
| d <sub>1</sub>   | ≈ 62.51 mm | Outside diameter of inner ring                           |
| d <sub>2</sub>   | 67.2 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>   | 38.1 mm    | Distance from locking device side face to raceway centre |

Calculation data

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 35.1 kN     |
| Basic static load rating  | C <sub>0</sub> | 23.2 kN     |
| Fatigue load limit        | P <sub>u</sub> | 0.98 kN     |
| Limiting speed            |                | 4 000 r/min |

|                    |       | Limiting speed with shaft tolerance h6 |
|--------------------|-------|----------------------------------------|
| Calculation factor | $f_0$ | 14                                     |

## Mounting information

|                                             |          |       |
|---------------------------------------------|----------|-------|
| Set screw                                   | $G_2$    | 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 210 A |
|---------------------|-----------|

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

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

### BEARING INTERFACES

- Shaft tolerances