

YAR 209-2F



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

- Designed for a constant and alternating rotation
- Quick and easy to mount onto the shaft
- Reduce noise and vibration levels



| Dimensions       |           |                                                          |
|------------------|-----------|----------------------------------------------------------|
| d                | 45 mm     | Bore diameter                                            |
| D                | 85 mm     | Outside diameter                                         |
| B                | 49.2 mm   | Width of inner ring                                      |
| C                | 22 mm     | Width of outer ring                                      |
| d <sub>1</sub>   | ≈ 56.8 mm | Outside diameter of inner ring                           |
| B <sub>4</sub>   | 8 mm      | Distance face to thread centre                           |
| r <sub>1,2</sub> | min. 1 mm | Chamfer dimension of inner ring                          |
| s <sub>1</sub>   | 30.2 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                                   | $G_2$ | M8x1    |
| Hexagonal key size for set screw            | N     | 4 mm    |
| Recommended tightening torque for set screw |       | 6.5 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