

# YAR 209-110-2F Insert bearing with set screw locking and extended inner ring



## Insert bearing with set screw locking and extended inner ring

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

## Overview

### Dimensions

Bore diameter	41.275 mm
Outside diameter	85 mm
Width, total	49.2 mm
Width, inner ring	49.2 mm
Width, outer ring	22 mm

### Performance

Basic dynamic load rating	33.2 kN
Basic static load rating	21.6 kN
Limiting speed	4 300 r/min
Note	Limiting speed with shaft tolerance h6

### Properties

Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rolling elements	Balls
Outer ring type	Spherical
Inner ring extension	On both sides
Cage	Non-metallic
Rubber seating ring	Without
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal and flinger on both sides

Sealing type	Contact, standard
Lubricant	Grease
Relubrication feature	With

## Technical Specification



### Dimensions

d	41.275 mm	Bore diameter
D	85 mm	Outside diameter
B	49.2 mm	Width of inner ring
C	22 mm	Width of outer ring
$d_1$	$\approx 56.8$ mm	Outside diameter of inner ring
$B_4$	8 mm	Distance face to thread centre
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$s_1$	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	$C_0$	21.6 kN
Fatigue load limit	$P_u$	0.915 kN
Limiting speed		4 300 r/min
		Limiting speed with shaft tolerance $h_6$
Calculation factor	$f_0$	14

### Mass

Mass	0.77 kg
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### Mounting information

Set screw	$G_2$	5/16-24 UNF
Hexagonal key size for set screw	N	3.969 mm

Recommended tightening torque for set screw

6.5 N·m

## Associated products

Rubber seating ring

RIS 209 A

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