

# YAR 205-100-2F 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	25.4 mm
Outside diameter	52 mm
Width, total	34.1 mm
Width, inner ring	34.1 mm
Width, outer ring	15 mm

### Performance

Basic dynamic load rating	14 kN
Basic static load rating	7.8 kN
Limiting speed	7 000 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	25.4 mm	Bore diameter
D	52 mm	Outside diameter
B	34.1 mm	Width of inner ring
C	15 mm	Width of outer ring
$d_1$	$\approx 33.74$ mm	Outside diameter of inner ring
$B_4$	5 mm	Distance face to thread centre
$r_{1,2}$	min. 0.6 mm	Chamfer dimension of inner ring
$s_1$	19.8 mm	Distance from locking device side face to raceway centre

### Calculation data

Basic dynamic load rating	C	14 kN
Basic static load rating	$C_0$	7.8 kN
Fatigue load limit	$P_u$	0.335 kN
Limiting speed		7 000 r/min
		Limiting speed with shaft tolerance $h_6$
Calculation factor	$f_0$	14

### Mass

Mass		0.19 kg
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### Mounting information

Set screw	$G_2$	1/4-28 UNF
Hexagonal key size for set screw	N	3.175 mm

Recommended tightening torque for set screw

4 N·m

## Associated products

Rubber seating ring

RIS 205

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