

YAR 205-2F/VA201 High temperature insert bearing with set screws and extended inner ring



High temperature insert bearing with set screws and extended inner ring

SKF high temperature bearings are designed to deliver increased reliability, reduced complexity and decreased environmental impact in operating temperatures up to 350 °C (660 °F). This makes these products very suitable for applications in kiln trucks, roller hearth furnaces, and bakeries, where there are both constant and alternating directions of rotation.

- Excellent performance under severe conditions
- Reduced environmental impact
- Reduce total operating cost
- Virtually maintenance-free operation

Overview

Dimensions

Bore diameter	25 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	110 r/min
Maximum operating temperature	250 °C

Properties

Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rolling elements	Balls
Outer ring type	Spherical
Inner ring extension	On both sides
Cage	Sheet metal
Rubber seating ring	Without
Material, bearing	High temperature steel
Coating	Manganese phosphate coated

Sealing	Shield and flinger on both sides
Sealing type	Non-contact
Lubricant	Solid lubricant
Relubrication feature	With

Technical Specification

Running in required

Yes



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	34.1 mm	Width inner ring
C	15 mm	Width outer ring
d ₁	≈ 33.74 mm	Shoulder diameter inner ring
B ₄	5 mm	Distance from locking device side face to thread centre
s ₁	19.8 mm	Distance from locking device side face to raceway centre
r _{1,2}	min. 0.6 mm	Chamfer dimension

Calculation data

Basic dynamic load rating	C	14 kN
Basic static load rating	C ₀	7.8 kN
Limiting speed		110 r/min
Operating temperature	T	max. 250 °C

Mass

Mass bearing	0.19 kg
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Mounting information

Set screw	G ₂	M6x0.75
Hexagonal key size for set screw	N	3 mm
Recommended tightening torque for set screw		4 N·m

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