

YAR 209-2F/VA228High

temperature insert bearing with set screws and extended inner ring

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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	45 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	130 r/min
Maximum operating temperature	350 °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	Non-metallic
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

No



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	49.2 mm	Width inner ring
C	22 mm	Width outer ring
d ₁	≈ 56.8 mm	Shoulder diameter inner ring
B ₄	8 mm	Distance from locking device side face to thread centre
s ₁	30.2 mm	Distance from locking device side face to raceway centre
r _{1,2}	min. 1 mm	Chamfer dimension

Calculation data

Basic dynamic load rating	C	33.2 kN
Basic static load rating	C ₀	21.6 kN
Limiting speed		130 r/min
Operating temperature	T	max. 350 °C

Mass

Mass bearing	0.68 kg
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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

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