



Image may differ from product. See technical specification for details.

YSA 211-2FK

Insert bearing with tapered bore and adapter sleeve locking

Insert bearings are based on sealed deep groove ball bearings. This variant, with a tapered bore, is suitable for applications with both constant and alternating directions of rotation. It is locked with an adapter sleeve, enabling quick and easy mounting onto the shaft. Adapter sleeve needs to be ordered separately.

- Quick and easy to mount onto the shaft
- Long service life
- Reduce noise and vibration levels

Overview

Dimensions

Shaft diameter	50 mm
Bore diameter	55 mm
Outside diameter	100 mm
Width, total	40 mm
Width, inner ring	40 mm
Width, outer ring	25 mm

Performance

Basic dynamic load rating	43.6 kN
Basic static load rating	29 kN
Limiting speed	3 600 r/min

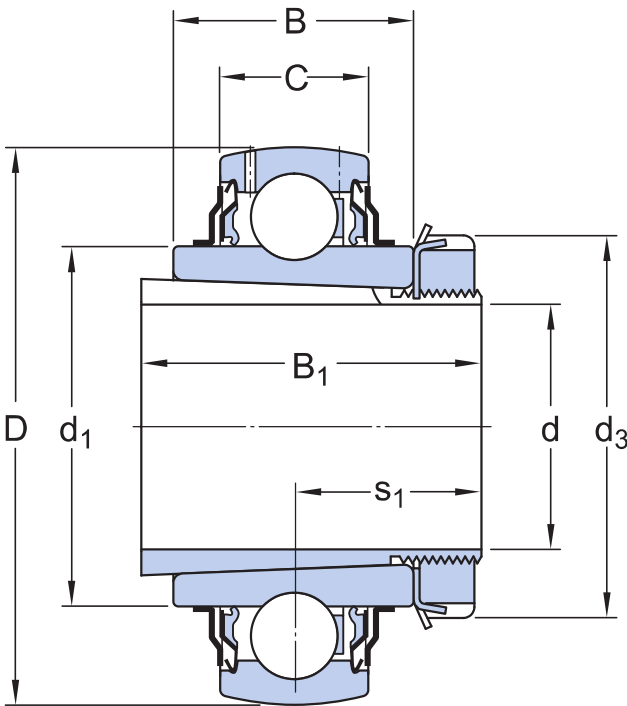
Properties

Retaining feature, inner ring	Adapter sleeve
Bore type	Tapered
Rolling elements	Balls
Outer ring type	Spherical
Inner ring extension	Symmetrically 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

Logistics

Product net weight	0.802 kg
eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification



Dimensions

d	50 mm	Bore diameter of sleeve
D	100 mm	Outside diameter
B ₁	59 mm	Width of sleeve
B	40 mm	Width of inner ring
C	25 mm	Width of outer ring
d ₁	≈ 69.06 mm	Outside diameter of inner ring
d ₃	75 mm	Outside diameter of lock nut
s ₁	32.5 mm	Distance from locking device side face to raceway centre

Value specified for s₁ is approximate and before the sleeve is driven into the bearing bore (sleeve and inner ring bore at starting position).

Calculation data

Basic dynamic load rating	C	43.6 kN
Basic static load rating	C ₀	29 kN
Fatigue load limit	P _u	1.25 kN
Limiting speed		3 600 r/min

Calculation factor	f_0	14
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Mounting information

Associated spanner		HN 11
Recommended tightening angle for lock nut	α	90 °

Associated products

Adapter sleeve	H 2311
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- [Tolerances: table 1, table 2](#)
- [Radial internal clearance: Standard inner ring, Other bearings](#)

BEARING INTERFACES

- [Shaft tolerances](#)

Compatible products




Parent product

Flanged ball bearing unit with composite or cast metal housing	UKF 211 K/H
Flanged ball bearing unit with composite or cast metal housing	UKFC 211 K/H
Flanged ball bearing unit with composite or cast metal housing	UKFL 211 K/H
Pillow block bearing unit with composite or cast metal housing	UKP 211 K/H
Take-up cast iron unit with insert ball bearing, adapter sleeve locking, JIS	UKT 211 K/H

Recommended product

Adapter sleeve with KM lock nut and MB lock washer, metric dimensions	H 2311
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More Information

<div> Product details</div> <div><div>Designs and variants</div><div>Lubrication</div><div>General bearing specifications</div><div>Loads</div><div>Temperature limits</div><div>Permissible speed</div><div>Design considerations</div><div>Mounting and dismounting</div><div>Designation system</div></div>	<div><div> Engineering information</div><div><div>Principles of rolling bearing selection</div><div>General bearing knowledge</div><div>Bearing selection process</div><div>Bearing failure and how to prevent it</div></div></div>	<div><div> Tools</div><div><div>SKF Product select</div><div>Bearing Frequency Calculator</div><div>SimPro Quick</div><div>Heater selection tool</div></div></div>
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