



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

2213 E-2RS1KTN9

Self-aligning ball bearing with tapered bore and seals on both sides

Self-aligning ball bearings, with a tapered bore and seals on both sides, have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing. The tapered bore facilitates ease of mounting via adapter/withdrawal

sleeves. The integral sealing can prolong bearing service life by keeping lubricant in the bearings and contaminants out.

- Ease of mounting via adapter/withdrawal sleeves
- Accommodate static and dynamic misalignment
- Excellent high-speed and light load performance
- Low friction
- Integral sealing results in reduced maintenance requirements and prolonged bearing service life

Overview

Dimensions

Bore diameter	65 mm
Outside diameter	120 mm
Width	31 mm

Performance

Basic dynamic load rating	35.1 kN
Basic static load rating	14 kN
Reference speed	10 000 r/min
Limiting speed	3 600 r/min

Properties

Retaining feature, inner ring	None
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Tapered 1:12
Cage	Non-metallic
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

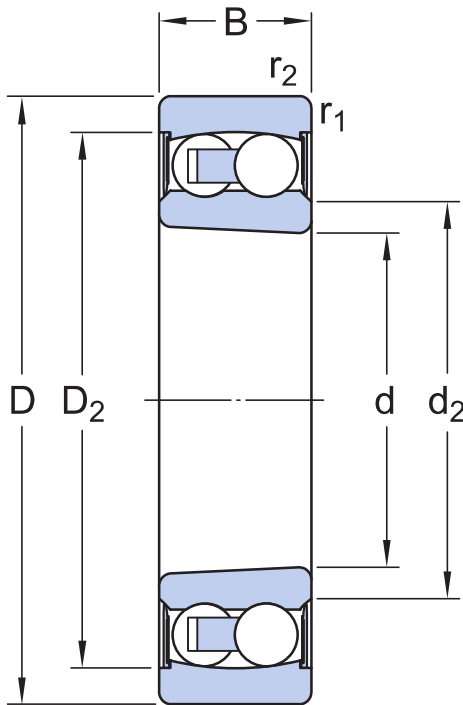
Logistics

Product net weight	1.42 kg
eClass code	23-05-08-06
UNSPSC code	31171532

Technical specification

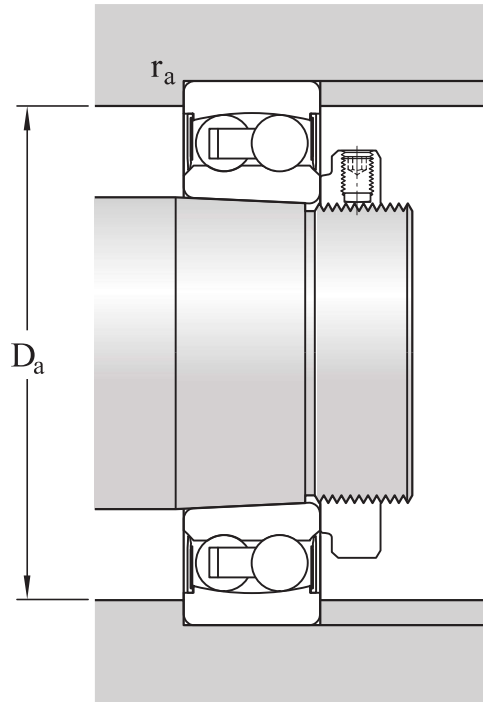
Bore type

Tapered 1:12



Dimensions

d	65 mm	Bore diameter
D	120 mm	Outside diameter
B	31 mm	Width
d ₂	≈ 79.3 mm	Recess diameter inner ring
D ₂	≈ 105.8 mm	Recess diameter outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension



Abutment dimensions

D _a	max. 111 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	35.1 kN
Basic static load rating	C ₀	14 kN
Fatigue load limit	P _u	0.72 kN
Reference speed		10 000 r/min
Limiting speed		3 600 r/min
Permissible angular misalignment	α	1.5 °
Calculation factor	k _r	0.045
Limiting value	e	0.18
Calculation factor	Y ₀	3.6
Calculation factor	Y ₁	3.5
Calculation factor	Y ₂	5.4

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- [Tolerances: Normal, JS7](#)
- [Radial internal clearance: table](#)

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fits](#)

Compatible products

Recommended product

Withdrawal sleeve, basic design, ISO standards	AH 313 G
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions	H 313
Adapter sleeve with KMFE lock nut, metric dimensions	H 313 E
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HA 313
Adapter sleeve	HA 313 E
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HE 313
Adapter sleeve	HE 313 E
Adapter sleeve with AN or N lock nut and W lock washer, inch dimensions	SNW 13X2.3/16

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Design considerations Mounting Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing interfaces Seat tolerances for standard conditions Selecting internal clearance Lubrication Sealing, mounting and dismounting Bearing failure and how to prevent it	 Tools SKF Product select - Select and evaluate bearing SKF Product select - Combine housing with bearing SimPro Quick LubeSelect for SKF greases Heater selection tool Drive-up Method Program Oil Injection Method Program Tool and Accessory Selector for sleeves and shafts
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