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2311 K/C3

Self-aligning ball bearing with tapered bore

Self-aligning ball bearings, with a tapered bore, 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, which can be caused, for example, by shaft deflection. The tapered bore facilitates ease of mounting via adapter sleeves or withdrawal sleeves.

- Ease of mounting via adapter sleeves or withdrawal sleeves
- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	43 mm

Performance

Basic dynamic load rating	76.1 kN
Basic static load rating	24 kN
Reference speed	11 000 r/min
Limiting speed	7 500 r/min

Properties

Retaining feature, inner ring	None
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	C3
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	7.34 kg CO_2e

Logistics

Product net weight	2.04 kg
eClass code	23-05-08-06
UNSPSC code	31171532

Compatible products

Recommended product

Withdrawal sleeve, basic design, ISO standards	AHX 2311
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions	H 2311
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HA 2311
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HE 2311 B
Adapter sleeve with AN or N lock nut and W lock washer, inch dimensions	SNW 111X1.15/16

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