

1313 EKTN9



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	65 mm
Outside diameter	140 mm
Width	33 mm

Performance

Basic dynamic load rating	65 kN
Basic static load rating	25.5 kN
Reference speed	8 500 r/min
Limiting speed	6 000 r/min

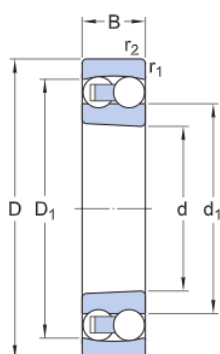
Properties

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	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

Bore type

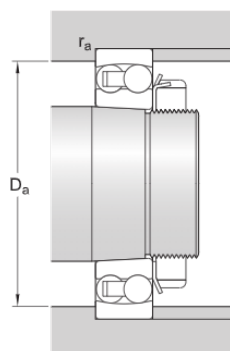
Tapered 1:12



Dimensions

d	65 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
d ₁	≈ 99 mm	Shoulder diameter inner ring
D ₁	≈ 125.2 mm	Shoulder diameter outer ring
r _{1,2}	min. 2 mm	Chamfer dimension

Abutment dimensions



D _a	max. 128 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	65 kN
Basic static load rating	C ₀	25.5 kN
Fatigue load limit	P _u	1.25 kN
Reference speed		8 500 r/min

Limiting speed		6 000 r/min
Permissible angular misalignment	α	3 °
Calculation factor	k_r	0.04
Limiting value	e	0.22
Calculation factor	Y_0	2.8
Calculation factor	Y_1	2.9
Calculation factor	Y_2	4.5

Mass

Mass bearing	2.35 kg
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