

Overview

1200 ETN9

Self-aligning ball bearing

Self-aligning ball bearings 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.

- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction

Dimensions

Bore diameter	10 mm
Outside diameter	30 mm
Width	9 mm

Performance

Basic dynamic load rating	5.53 kN
Basic static load rating	1.18 kN
Reference speed	56 000 r/min
Limiting speed	36 000 r/min

Properties

Retaining feature, inner ring	None
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Cylindrical
Cage	Non-metallic
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

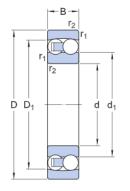




Technical Specification

Bore type

Cylindrical



Dimensions

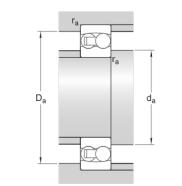
d	10 mm	Bore diameter
D	30 mm	Outside diameter
В	9 mm	Width
d_1	≈16.5 mm	Shoulder diameter inner ring
D_1	≈ 23.5 mm	Shoulder diameter outer ring
r _{1,2}	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d _a min. 14.2 mm	Abutment diameter shaft
D _a max. 25.8 mm	Abutment diameter housing
r _a max. 0.6 mm	Fillet radius



Basic dynamic load rating	С	5.53 kN
Basic static load rating	C ₀	1.18 kN
Fatigue load limit	P _u	0.061 kN
Reference speed		56 000 r/min





Limiting speed		36 000 r/min
Permissible angular misalignment	α	2.5 °
Calculation factor	k _r	0.04
Limiting value	е	0.33
Calculation factor	Υ ₀	2
Calculation factor	Y ₁	1.9
Calculation factor	Y ₂	3

Mass

Mass bearing 0.034 kg



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