



3306 ATN9 Double row angular contact ball bearing

Double row angular contact ball bearing

Double row angular contact ball bearings correspond, in their design and operation, to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. They can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.

- High-speed capability
- Accommodate relatively high radial loads, high axial loads in both directions and tilting moments
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	30.2 mm
Contact angle	30 °

Performance

Basic dynamic load rating	42.5 kN
Basic static load rating	30 kN
Reference speed	10 000 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	None
Ring type	One-piece inner and outer rings
Cage	Non-metallic
Arrangement of contact angle (double-row bearing)	Back-to-back (O)
Matched arrangement	No
Universal	No

matching bearing

Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class

SKF Explorer

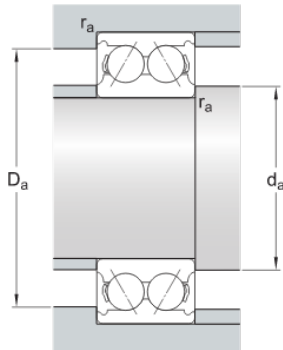


Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	30.2 mm	Width
d_2	≈ 39.8 mm	Recess diameter inner ring shoulder
D_2	≈ 64.1 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 1.1 mm	Chamfer dimension inner ring
a	42 mm	Distance pressure point(s)

Abutment dimensions

d_a	min. 37 mm	Abutment diameter shaft
D_a	max. 65 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	42.5 kN
Basic static load rating	C_0	30 kN
Fatigue load limit	P_u	1.27 kN
Reference speed		10 000 r/min

Limiting speed		9 000 r/min
Calculation factor	k_r	0.07
Limiting value	e	0.8
Calculation factor	X	0.63
Calculation factor	Y_0	0.66
Calculation factor	Y_1	0.78
Calculation factor	Y_2	1.24

Mass

Mass bearing		0.52 kg
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