

3201 A-2ZTN9/MT33



Double row angular contact ball bearing with seals on both sides

Double row angular contact ball bearings, with seals on both sides, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. Depending on the sealing execution, 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
- Integral sealing prolongs bearing service life

Overview

Dimensions

Bore diameter	12 mm
Contact angle	30 °
Outside diameter	32 mm
Width	15.9 mm

Performance

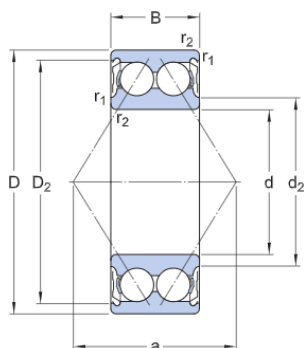
Basic dynamic load rating	10.1 kN
Basic static load rating	5.6 kN
Limiting speed	22 000 r/min
Reference speed	24 000 r/min

Properties

Arrangement of contact angle (double-row bearing)	Back-to-back (0)
Axial internal clearance	CN
Cage	Non-metallic
Coating	Without
Contact type	Normal contact (two-point contact)
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel

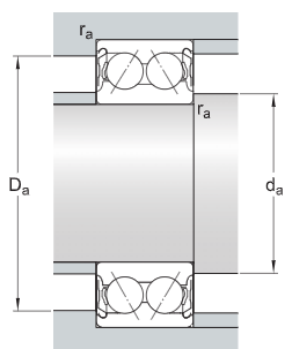
Number of rows	2
Relubrication feature	Without
Ring type	One-piece inner and outer rings
Sealing	Shield on both sides
Sealing type	Non-contact
Universal matching bearing	No

Technical Specification



Dimensions

d	12 mm	Bore diameter
D	32 mm	Outside diameter
B	15.9 mm	Width
d ₂	≈ 17.2 mm	Recess diameter inner ring shoulder
D ₂	≈ 27.7 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 0.6 mm	Chamfer dimension inner ring
a	19 mm	Distance pressure point(s)



Abutment dimensions

d _a	min. 16.4 mm	Abutment diameter shaft
d _a	max. 17 mm	Abutment diameter shaft
D _a	max. 27.6 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	10.1 kN
Basic static load rating	C ₀	5.6 kN
Fatigue load limit	P _u	0.24 kN
Reference speed		24 000 r/min
Limiting speed		22 000 r/min
Calculation factor	k _r	0.06
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		0.058 kg
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