

3202 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

Performance

Bore diameter	15 mm	Basic dynamic load rating	11.2 kN
Contact angle	30 °	Basic static load rating	6.8 kN
Outside diameter	35 mm	Limiting speed	18 000 r/min
Width	15.9 mm	Reference speed	22 000 r/min

Properties

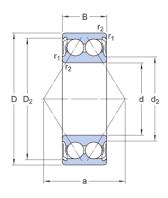
Arrangement of contact angle (double-row bearing)	Back-to-back (0)
Axial internal clearance	CN
Cage	Non-metallic
Coating	Without
Contact type	Normal contact (two-point contact)
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel



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

Abutment dimensions

d	15 mm	Bore diameter
D	35 mm	Outside diameter
В	15.9 mm	Width
d ₂	≈ 20.2 mm	Recess diameter inner ring shoulder
D_2	≈ 30.7 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 0.6 mm	Chamfer dimension inner ring
а	21 mm	Distance pressure point(s)

d_a min. 19.4 mm

d,

d _a min. 19.4 mm	Abutment diameter shaft
d _a max. 20 mm	Abutment diameter shaft
D _a max. 30.6 mm	Abutment diameter housing
r _a max. 0.6 mm	Fillet radius

Calculation data

 \dot{D}_a

Basic dynamic load rating	С	11.2 kN
Basic static load rating	C ₀	6.8 kN
Fatigue load limit	Pu	0.285 kN
Reference speed		22 000 r/min
Limiting speed		18 000 r/min
Calculation factor	k _r	0.06
Limiting value	е	0.8
Calculation factor	Х	0.63



Calculation factor	Y ₀	0.66
Calculation factor	Y ₁	0.78
Calculation factor	Y ₂	1.24

Mass

Mass bearing

0.066 kg



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