

Image may differ from product. See technical specification for details.

3305 A-2ZTN9/MT33

Double row angular contact ball bearing with seals or shields

Double row angular contact ball bearings, with seals or shields, 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	25 mm
Outside diameter	62 mm
Width	25.4 mm
Contact angle	30 °

Performance

Basic dynamic load rating	32.5 kN
Basic static load rating	22 kN
Reference speed	11 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

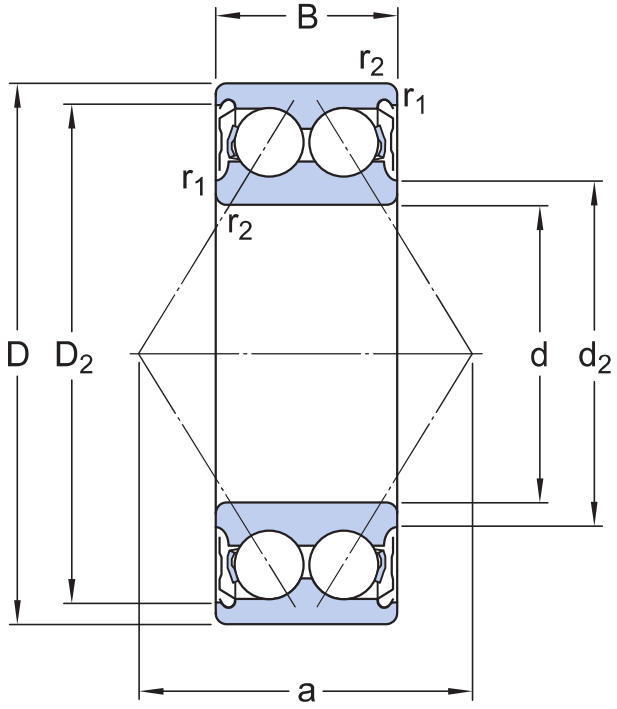
Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	None
Ring type	One-piece inner and outer rings
Cage	Non-metallic
Arrangement of contact angle (double-row bearing)	Back-to-back (O)
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

Logistics

Product net weight	0.351 kg

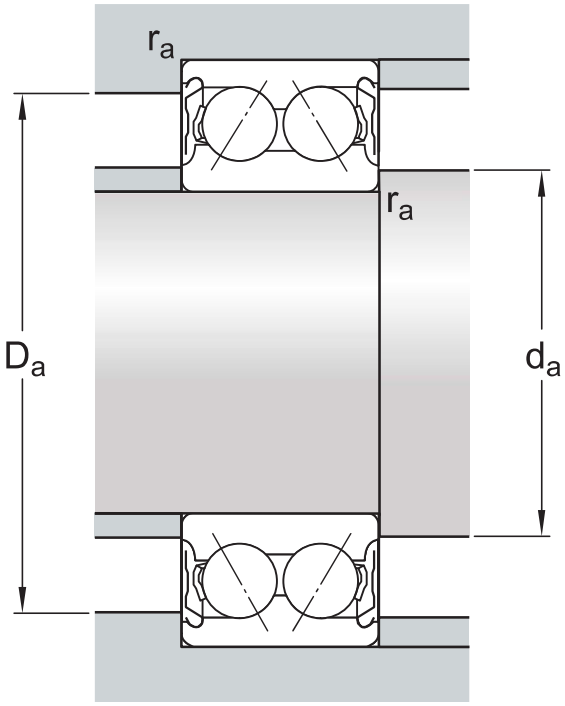
eClass code	23-05-08-03
UNSPSC code	31171531

Technical specification



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	25.4 mm	Width
d_2	≈ 35.7 mm	Recess diameter inner ring shoulder
D_2	≈ 53.4 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 1.1 mm	Chamfer dimension inner ring
a	36 mm	Distance pressure point(s)



Abutment dimensions

d_a	min. 32 mm	Abutment diameter shaft
d_a	max. 35.5 mm	Abutment diameter shaft
D_a	max. 55 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	22 kN
Fatigue load limit	P_u	0.93 kN
Reference speed		11 000 r/min
Limiting speed		11 000 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

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5
- Internal clearance: table, drawing no

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

Product details

- Designs and variants
- General bearing specifications
- Loads
- Temperature limits
- Permissible speed
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Seat tolerances for standard conditions
- Selecting internal clearance or preload
- Lubrication
- Sealing, mounting and dismounting
- Bearing failure and how to prevent it

Tools

- SKF Product select
- SimPro Quick
- Bearing Frequency Calculator
- LubeSelect for SKF greases
- Heater selection tool
- SKF mounting and dismounting instructions

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