



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

3205 A-2RS1TN9/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	52 mm
Width	20.6 mm
Contact angle	30 °

Performance

Basic dynamic load rating	22 kN
Basic static load rating	15.3 kN
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

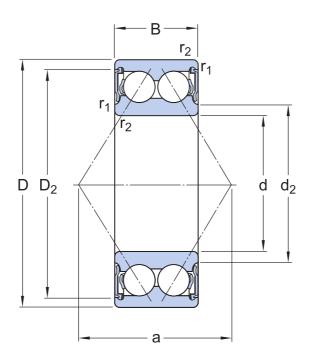
Properties

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	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

Logistics

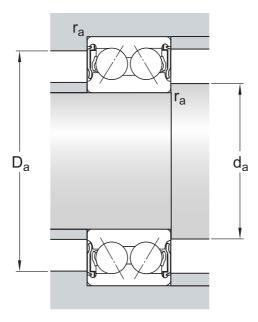
Product net weight	0.173 kg
eClass code	23-05-08-03
UNSPSC code	31171531

Technical specification



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
В	20.6 mm	Width
d ₂	≈ 32.7 mm	Recess diameter inner ring shoulder
D ₂	≈ 45.9 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 1 mm	Chamfer dimension inner ring
a	30 mm	Distance pressure point(s)



Abutment dimensions

d _a	min. 30.6 mm	Abutment diameter shaft
d _a	max. 32.5 mm	Abutment diameter shaft
D _a	max. 46.4 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

	SKF Explorer
С	22 kN
C ₀	15.3 kN
Pu	0.64 kN
	8 500 r/min
k _r	0.06
e	0.8
X	0.63
Y ₀	0.66
Y ₁	0.78
Y ₂	1.24
C P k k Y Y	20 1u r c

More Information

Product details	Engineering information	interview Tools
Designs and variants		SKF Product select
General bearing specifications	Principles of rolling bearing selection	SimPro Quick
Loads	General bearing knowledge	Bearing Frequency Calculator
Temperature limits	Bearing selection process	LubeSelect for SKF greases
Permissible speed	Bearing interfaces	Heater selection tool
Designation system	Seat tolerances for standard conditions	SKF mounting and dismounting
	Selecting internal clearance or preload	
	Lubrication	
	Sealing, mounting and dismounting	
	Bearing failure and how to prevent it	



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