



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

3200 A-2RS1TN9

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	10 mm
Outside diameter	30 mm
Width	14 mm
Contact angle	30 °

Performance

Basic dynamic load rating	7.61 kN
Basic static load rating	4.3 kN
Limiting speed	17 000 r/min

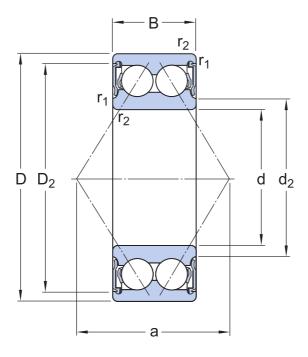
Properties

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

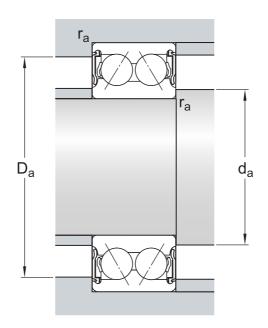
Product net weight	0.05 kg	
eClass code	23-05-08-03	
UNSPSC code	31171531	

Technical specification



Dimensions

d	10 mm	Bore diameter
D	30 mm	Outside diameter
В	14 mm	Width
d_2	≈ 15.8 mm	Recess diameter inner ring shoulder
D_2	≈ 24.95 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 0.6 mm	Chamfer dimension inner ring
a	16 mm	Distance pressure point(s)



Abutment dimensions

d _a	min. 14.4 mm	Abutment diameter shaft
d _a	max. 15.5 mm	Abutment diameter shaft
D _a	max. 25.6 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	7.61 kN
Basic static load rating	C ₀	4.3 kN
Fatigue load limit	P_{u}	0.183 kN
Limiting speed		17 000 r/min
Calculation factor	k _r	0.06
Limiting value	е	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

More Information

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



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