



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

4303 ATN9

Double row deep groove ball bearing

Double row deep groove ball bearings correspond, in their design and operation, to a pair of single row deep groove ball bearings. They are robust in operation, requiring little maintenance, can operate at high speeds and accommodate radial and axial loads in both directions. They are slightly wider than single row bearings of the same bore and outside diameter but have a considerably higher load carrying capacity.

- Versatile and robust design
- High-speed capability
- Accommodate high axial and radial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	47 mm
Width	19 mm

Performance

Basic dynamic load rating	19.5 kN
Basic static load rating	13.2 kN
Reference speed	24 000 r/min
Limiting speed	13 000 r/min

Properties

Filling slots	Without
Number of rows	2
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

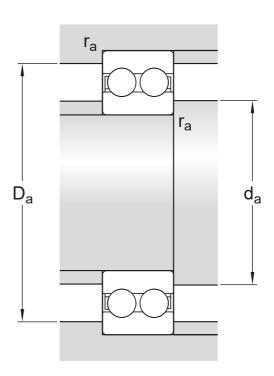
Product net weight	0.158 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification

Dimensions - 4303 ATN9

Dimensions

d	17 mm	Bore diameter
D	47 mm	Outside diameter
В	19 mm	Width
d_1	≈ 28.7 mm	Shoulder diameter
D_1	≈ 38.3 mm	Shoulder diameter
r _{1.2}	min. 1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 22.6 mm	Diameter of shaft abutment
D _a	max. 41.4 mm	Diameter of housing abutment
r _a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	19.5 kN
Basic static load rating	C ₀	13.2 kN
Fatigue load limit	P _u	0.56 kN
Reference speed		24 000 r/min
Limiting speed		13 000 r/min
Minimum load factor	k _r	0.06
Calculation factor	f ₀	13.1

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

More Information

Engineering Tools Product details information Single row deep groove ball bearings SKF Product select Principles of rolling bearing selection Stainless steel deep groove ball SimPro Quick General bearing knowledge Bearing Frequency Calculator Single row deep groove ball bearings Bearing selection process with filling slots LubeSelect for SKF greases Bearing interfaces Double row deep groove ball bearings Heater selection tool Seat tolerances for standard General bearing specifications conditions Loads Selecting internal clearance Temperature limits Lubrication Permissible speed Sealing, mounting and dismounting Designation system Bearing failure and how to prevent it



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