



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

4305 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	0.984 in
Outside diameter	2.441 in
Width	0.945 in

Performance

Basic dynamic load rating	7 171 lbf
Basic static load rating	5 036 lbf
Reference speed	18 000 r/min
Limiting speed	10 000 r/min

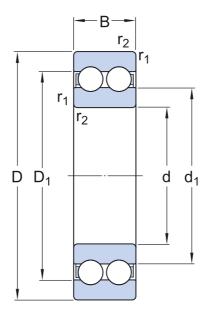
Properties

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
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

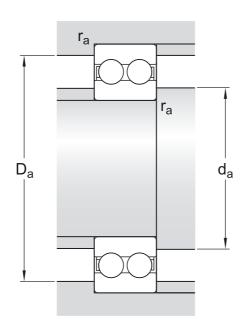
Product net weight	0.7297 lb
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	0.984 in	Bore diameter
D	2.441 in	Outside diameter
В	0.945 in	Width
d_1	≈ 1.469 in	Shoulder diameter
D_1	≈ 1.957 in	Shoulder diameter
r ₁₂	min. 0.043 in	Chamfer dimension



Abutment dimensions

d _a	min. 1.26 in	Diameter of shaft abutment
D _a	max. 2.165 in	Diameter of housing abutment
r _a	max. 0.039 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	7 171 lbf
Basic static load rating	C_0	5 036 lbf
Fatigue load limit	P_{u}	214 lbf
Reference speed		18 000 r/min
Limiting speed		10 000 r/min
Minimum load factor	k _r	0.06
Calculation factor	f_0	13.1

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

More Information

Engineering information Tools Product details 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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