

3205 ATN9

- Popular item
- SKF Explorer

Angular contact ball bearings, double row

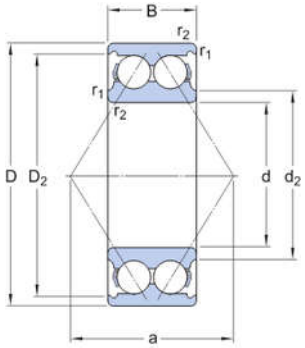
Bearing data

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

Bearing interfaces

Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification

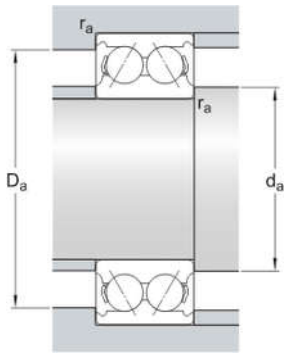


DIMENSIONS

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	20.6 mm	Width
d1	≈34.44 mm	Shoulder diameter inner ring
d2	≈32.7 mm	Recess diameter inner ring shoulder
D1	≈44.55 mm	Shoulder diameter outer ring
D2	≈45.9 mm	Recess diameter outer ring shoulder
r1,2	min.1 mm	Chamfer dimension inner ring
a	30 mm	Distance pressure point(s)

ABUTMENT DIMENSIONS

da	min.31 mm	Abutment diameter shaft
Da	max.46 mm	Abutment diameter housing
ra	max.1 mm	Fillet radius



CALCULATION DATA

Basic dynamic load rating	C	22 kN
Basic static load rating	C_0	15.3 kN
Fatigue load limit	P_u	0.64 kN
Reference speed		12 000 r/min
Limiting speed		12 000 r/min
Calculation factor	k_r	0.06
Calculation factor	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

MASS

Mass bearing		0.18 kg

More information

Product details

- Designs and variants
- Bearing data
- 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

- Bearing Select
- SimPro Quick
- Engineering Calculator
- LubeSelect for SKF greases
- Heater selection tool
- Rolling bearings mounting and dismounting instructions

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