



# 3209 ATN9 Angular contact ball bearings, double row

- Popular item  
- SKF Explorer

## Angular contact ball bearings, double row

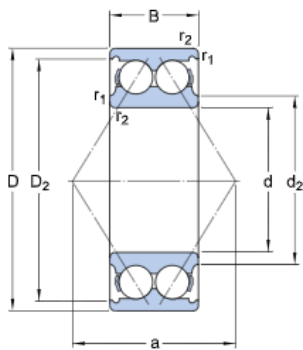
### Bearing data

[Tolerances](#),  
Normal, P6, P5,  
[Internal clearance](#),  
table, drawing no

### Bearing interfaces

[Seat tolerances for standard conditions](#),  
[Tolerances and resultant fit](#)

## Technical specification

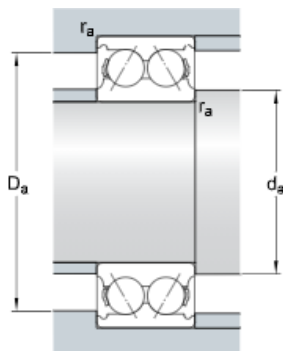


### DIMENSIONS

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	30.2 mm	Width
$d_2$	≈ 52.8 mm	Recess diameter inner ring shoulder
$D_2$	≈ 77.1 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 1.1 mm	Chamfer dimension inner ring
a	49 mm	Distance pressure point(s)

### ABUTMENT DIMENSIONS

$d_a$	min. 52 mm	Abutment diameter shaft
$D_i$	max. 78 mm	Abutment diameter housing
$r_a$	max. 1 mm	Fillet radius



## CALCULATION DATA

C	52 kN	Basic dynamic load rating
C <sub>0</sub>	41.5 kN	Basic static load rating
P <sub>u</sub>	1.76 kN	Fatigue load limit
	7 500 r/min	Reference speed
	7 500 r/min	Limiting speed
k <sub>r</sub>	0.06	Calculation factor
e	0.8	Calculation factor
X	0.63	Calculation factor
Y <sub>0</sub>	0.66	Calculation factor
Y <sub>1</sub>	0.78	Calculation factor
Y <sub>2</sub>	1.24	Calculation factor

## MASS

	0.63 kg	Mass bearing
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