



# 2203 ETN9 Self-aligning ball bearings

- Popular item

## Self-aligning ball bearings

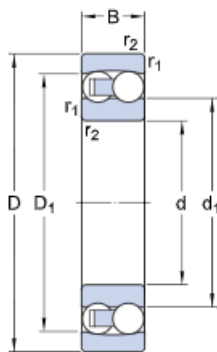
### Bearing data

[Tolerances](#),  
Normal, JS7,  
[Radial internal clearance](#),  
table

### Bearing interfaceS

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

## Technical specification

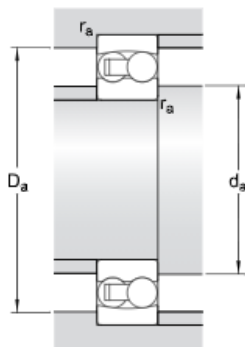


### DIMENSIONS

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	16 mm	Width
$d_1$	≈ 23.83 mm	Shoulder diameter inner ring
$D_1$	≈ 33.4 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

$d_a$	min. 21.2 mm	Abutment diameter shaft
$D_a$	max. 35.8 mm	Abutment diameter housing
$r_a$	max. 0.6 mm	Fillet radius



## CALCULATION DATA

C	10.6 kN	Basic dynamic load rating
C <sub>0</sub>	2.55 kN	Basic static load rating
P <sub>u</sub>	0.132 kN	Fatigue load limit
	34 000 r/min	Reference speed
	24 000 r/min	Limiting speed
α	2.5 °	Permissible angular misalignment
k <sub>r</sub>	0.045	Calculation factor
e	0.43	Calculation factor
Y <sub>0</sub>	1.6	Calculation factor
Y <sub>1</sub>	1.5	Calculation factor
Y <sub>2</sub>	2.3	Calculation factor

## MASS

	0.088 kg	Mass bearing
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