



2209 E-2RS1TN9 Self-aligning ball bearings

Popular item

Self-aligning ball bearings

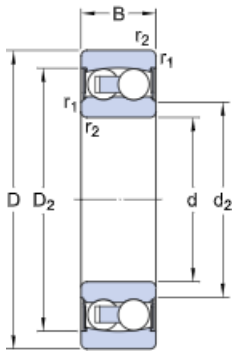
Bearing data

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

Bearing interfaceS

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

Technical specification

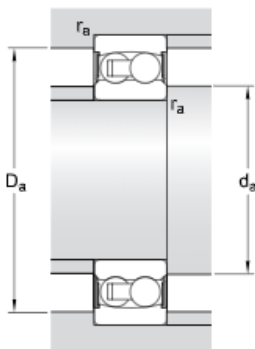


DIMENSIONS

d	45 mm
D	85 mm
B	23 mm
d ₂	≈ 52.9 mm
D ₂	≈ 75.25 mm
r _{1,2}	min. 1.1 mm

ABUTMENT DIMENSIONS

d _a	min. 52 mm
d _a	max. 53 mm
D _a	max. 78 mm
r _a	max. 1.1 mm



CALCULATION DATA

Basic dynamic load rating	C	22.9 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.4 kN
Limiting speed		5 300 r/min
Permissible angular misalignment	α	1.5 °
Calculation factor	k _r	0.045
Calculation factor	e	0.21
Calculation factor	Y ₀	3.2
Calculation factor	Y ₁	3
Calculation factor	Y ₂	4.6

MASS

Mass bearing		0.53 kg
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More information

Product details	Engineering information	Tools
Designs and variants	Principles of rolling bearing selection	Bearing Select
Bearing data	General bearing knowledge	SimPro Quick
Loads	Bearing selection process	Engineering Calculator
Temperature limits	Bearing interfaces	LubeSelect for SKF greases
Permissible speed	Seat tolerances for standard conditions	Heater selection tool
Design considerations	Selecting internal clearance	Drive-up Method Program
Mounting	Lubrication	Oil Injection Method Program
Designation system	Sealing, mounting and dismantling	Tool and Accessory Selector for sleeves and shafts
	Bearing failure and how to prevent it	Housing Select
		Rolling bearings mounting and dismantling instructions

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