



2209 ETN9

- Popular item

Self-aligning ball bearings

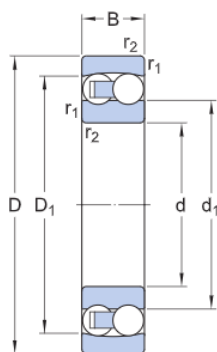
Bearing data

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

Bearing interfaceS

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

Technical specification

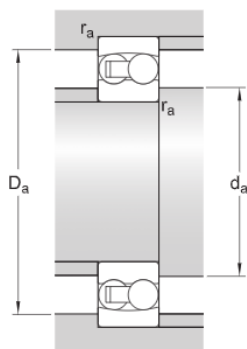


DIMENSIONS

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d ₁	≈ 55.32 mm	Shoulder diameter inner ring
D ₁	≈ 73.2 mm	Shoulder diameter outer ring
r _{1,2}	min. 1.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 52 mm	Abutment diameter shaft
D _i	max. 78 mm	Abutment diameter housing
r _a	max. 1.1 mm	Fillet radius



CALCULATION DATA

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C ₀	10.6 kN
Fatigue load limit	P _u	0.54 kN
Reference speed		15 000 r/min
Limiting speed		10 000 r/min
Permissible angular misalignment	α	2.5 °
Calculation factor	k _r	0.045
Calculation factor	e	0.26
Calculation factor	Y ₀	2.5
Calculation factor	Y ₁	2.4
Calculation factor	Y ₂	3.7

MASS

Mass bearing	0.55 kg
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More information

Product details Designs and variants Bearing data Loads Temperature limits Permissible speed Design considerations Mounting 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 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 Drive-up Method Program Oil Injection Method Program Tool and Accessory Selector for sleeves and shafts Housing Select Rolling bearings mounting and dismounting instructions
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