



1307 EKTN9

Self-aligning ball bearings

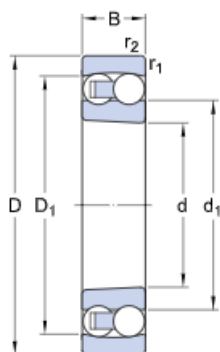
Bearing data

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

Bearing interfaceS

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

Technical specification

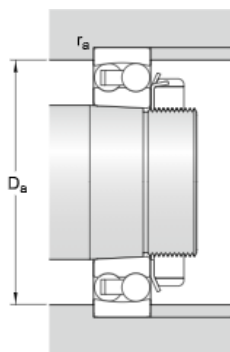


DIMENSIONS

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d1	≈51.55 mm	Shoulder diameter inner ring
D1	≈67.5 mm	Shoulder diameter outer ring
r1,2	min.1.5 mm	Chamfer dimension
Tapered bore, taper 1:12		

ABUTMENT DIMENSIONS

Da	max.71 mm	Abutment diameter housing
ra	max.1.5 mm	Fillet radius



CALCULATION DATA

Basic dynamic load rating	C	26.5 kN
Basic static load rating	C ₀	8.5 kN
Fatigue load limit	P _u	0.43 kN
Reference speed		16 000 r/min
Limiting speed		11 000 r/min
Permissible angular misalignment	α	3 °
Calculation factor	k _r	0.04
Calculation factor	e	0.25
Calculation factor	Y ₀	2.5
Calculation factor	Y ₁	2.5
Calculation factor	Y ₂	3.9

MASS

Mass bearing	0.51 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 dismounting	Tool and Accessory Selector for sleeves and shafts
	Bearing failure and how to prevent it	Housing Select
		Rolling bearings mounting and dismounting instructions

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