



1307 EKTN9

Self-aligning ball bearings

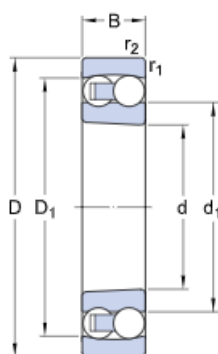
Bearing data

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

Bearing interfaceS

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

Technical specification

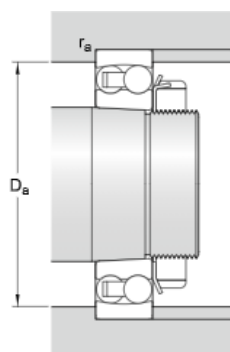


DIMENSIONS

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 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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