

1316 Self-aligning ball bearings

Popular item

Self-aligning ball bearings

Bearing data Tolerances, Normal, JS7,

Radial internal clearance,

table

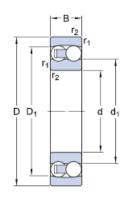
Bearing interfaceS

Seat tolerances for standard

conditions,

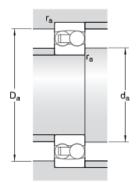
Tolerances and resultant fits

Technical specification



DIMENSIONS

d	80 mm
D	170 mm
В	39 mm
d_1	≈ 110 mm
D_1	≈ 144.4 mm
r _{1,2}	min. 2.1 mm



ABUTMENT DIMENSIONS

min. 92 mm	d _a
max. 158 mm	D_a
max. 2 mm	ra



CALCULATION DATA

Basic dynamic load rating	С	88.4 kN
Basic static load rating	C_0	33.5 kN
Fatigue load limit	P_{u}	1.5 kN
Reference speed		7 500 r/min
Limiting speed		5 300 r/min
Permissible angular misalignment	α	3°
Calculation factor	k_r	0.045
Calculation factor	е	0.22
Calculation factor	Y_0	2.8
Calculation factor	Y_1	2.9
Calculation factor	Y ₂	4.5

MASS





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	Heater selection tool	
Design considerations	standard conditions	Drive-up Method Program	
Mounting	Selecting internal clearance	Oil Injection Method	
Designation system	Lubrication	Program Tool and Accessory Selector	
	Sealing, mounting and dismounting	for sleeves and shafts	
Bearing failure and how to prevent it	Bearing failure and how to	Housing Select	
	prevent it	Rolling bearings mounting and dismounting	
		instructions	





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