

2311 M

Self-aligning ball bearings

Bearing data Tolerances,

Normal, JS7, Radial internal clearance,

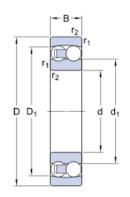
table

Bearing interfaceS

Seat tolerances for standard conditions,

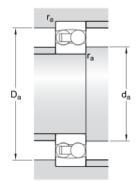
Tolerances and resultant fits

Technical specification



DIMENSIONS

d	55 mm
D	120 mm
В	43 mm
d_1	≈ 72 mm
D_1	≈ 101 mm
r _{1,2}	min. 2 mm



ABUTMENT DIMENSIONS

d _a	min. 66 mm
D _a	max. 109 mm
r _a	max. 2 mm



CALCULATION DATA

Basic dynamic load rating	С	76.1 kN
Basic static load rating	C_0	24 kN
Fatigue load limit	P_{u}	1.25 kN
Reference speed		11000 r/min
Limiting speed		7500 r/min
Permissible angular misalignment	α	3°
Calculation factor	k_{r}	0.05
Calculation factor	е	0.4
Calculation factor	Y_0	1.6
Calculation factor	Y_1	1.6
Calculation factor	Y ₂	2.4

MASS

Mass bearing	2.34 kg
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5KF.



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	Housing Select
	prevent it	Rolling bearings mounting and dismounting
		instructions





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