

2311 M

Self-aligning ball bearings

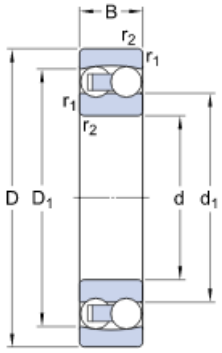
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

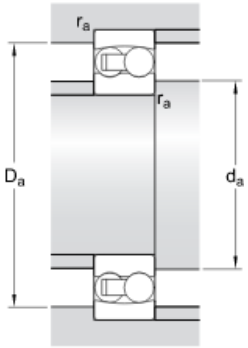
Seat tolerances for standard conditions,
Tolerances and resultant fits

Technical specification



DIMENSIONS

d	55 mm
D	120 mm
B	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	C	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	e	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

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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