

QJ 311 MA

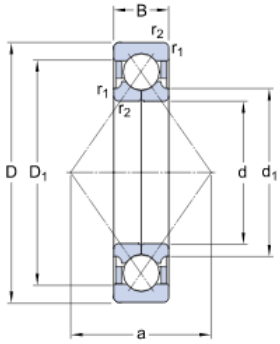
Popular item
SKF Explorer

Angular contact ball bearings, four-point contact ball bearings

Bearing data
Tolerances,
Normal, P6,
Internal clearance,
table

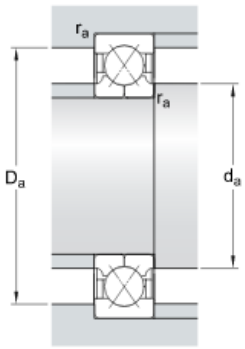
Bearing interfaces
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	55 mm
D	120 mm
B	29 mm
d_1	≈ 70.5 mm
D_1	≈ 97.8 mm
a	61 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	137 kN
Basic static load rating	C_0	118 kN
Fatigue load limit	P_u	5 kN
Limiting speed		10000 r/min
Calculation factor	A	0.0404
Calculation factor	e	0.95
Calculation factor	X	0.6
Calculation factor	Y_0	0.58
Calculation factor	Y_1	0.66
Calculation factor	Y_2	1.07

MASS

Mass bearing	1.75 kg

More information

Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Designation system

Engineering information

- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Seat tolerances for standard conditions
- Selecting internal clearance or preload
- Lubrication
- External 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
- Rolling bearings mounting and dismounting instructions

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