

QJ 314 MA

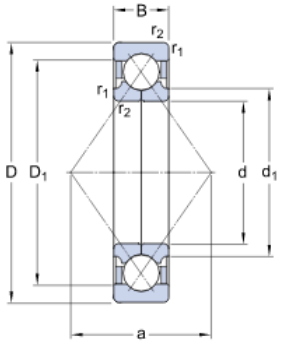
Popular item
SKF Explorer

Angular contact ball bearings, four-point contact ball bearings

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

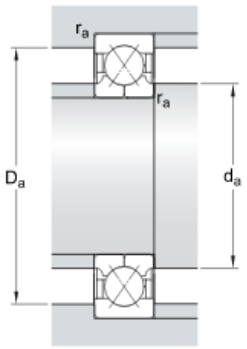
Bearing interfaces
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	70 mm
D	150 mm
B	35 mm
d_1	≈ 89 mm
D_1	≈ 123 mm
a	77 mm
$r_{1,2}$	min. 2.1 mm



ABUTMENT DIMENSIONS

d_a	min. 82 mm
D_a	max. 138 mm
r_a	max. 2 mm

CALCULATION DATA

Basic dynamic load rating	C	200 kN
Basic static load rating	C_0	180 kN
Fatigue load limit	P_u	7.35 kN
Limiting speed		8000 r/min
Calculation factor	A	0.0954
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		3.15 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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