



QJ 309 MA

- Popular item
- SKF Explorer

Angular contact ball bearings, four-point contact ball bearings

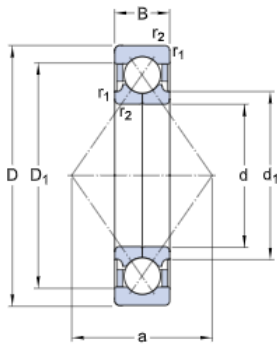
Bearing data

[Tolerances](#),
Normal, P6,
[Internal clearance](#),
table

Bearing interfaces

[Seat tolerances for standard conditions](#),
[Tolerances and resultant fit](#)

Technical specification

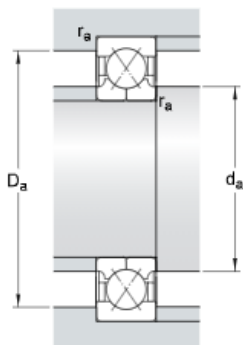


DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d1	≈58 mm	Shoulder diameter inner ring
D1	≈81.2 mm	Shoulder diameter outer ring/inner diameter housing washer
a	51 mm	Distance pressure point(s)
r1,2	min.1.5 mm	Chamfer dimension inner ring

ABUTMENT DIMENSIONS

da	min.54 mm	Abutment diameter shaft
Da	max.91 mm	Abutment diameter housing
ra	max.1.5 mm	Fillet radius



CALCULATION DATA

Basic dynamic load rating	C	100 kN
Basic static load rating	C ₀	83 kN
Fatigue load limit	P _u	3.55 kN
Limiting speed		12 000 r/min
Calculation factor	A	0.02
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		1.05 kg
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More information

Product details	Product details	Engineering information	Engineering information	Tools	Tools
Designs and variants	Designs and variants	General bearing knowledge	General bearing knowledge	Bearing Select	Bearing Select
Bearing data	Bearing data	Bearing selection process	Bearing selection process	SimPro Quick	SimPro Quick
Loads	Loads	Bearing interfaces	Bearing interfaces	Engineering Calculator	Engineering Calculator
Temperature limits	Temperature limits	Seat tolerances for standard condition	Seat tolerances for standard condition	LubeSelect for SKF greases	LubeSelect for SKF greases
Permissible speed	Permissible speed	Selecting internal clearance or preload	Selecting internal clearance or preload	Heater selection tool	Heater selection tool
Design considerations	Design considerations	Lubrication	Lubrication	Rolling bearings mounting and dismounting instructions	Rolling bearings mounting and dismounting instructions
Designation system	Designation system	External sealing, mounting and dismounting	External sealing, mounting and dismounting		
		Bearing failure and how to prevent it	Bearing failure and how to prevent it		

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