



# QJ 308 MA Four-point contact ball bearing

## Four-point contact ball bearing

Four-point contact ball bearings can accommodate high axial loads in both directions and small radial loads. They can operate at very high speeds and are more suitable than deep groove ball bearings for supporting large axial forces. The outer ring, with ball and cage assembly, can be mounted separately from the two inner ring halves.

- High-speed capability
- Accommodate high axial loads in both directions and small radial loads
- Require considerably less axial space than double row angular contact ball bearings

## Overview

### Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm
Contact angle	35 °

### Performance

Basic dynamic load rating	78 kN
Basic static load rating	64 kN
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

### Properties

Contact type	Four-point contact
Number of rows	1
Locating feature, bearing outer ring	None
Ring type	Two-piece inner ring and one-piece outer ring
Cage	Machined metal
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN

Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

# Technical Specification

SKF performance class

SKF Explorer

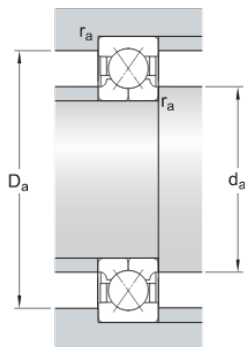


## Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
$d_1$	≈ 52 mm	Shoulder diameter inner ring
$D_1$	≈ 72.5 mm	Shoulder diameter outer ring/ inner diameter housing washer
a	46 mm	Distance pressure point(s)
$r_{1,2}$	min. 1.5 mm	Chamfer dimension inner ring

## Abutment dimensions

$d_a$	min. 49 mm	Abutment diameter shaft
$D_a$	max. 81 mm	Abutment diameter housing
$r_a$	max. 1.5 mm	Fillet radius



## Calculation data

Basic dynamic load rating	C	78 kN
Basic static load rating	$C_0$	64 kN
Fatigue load limit	$P_u$	2.7 kN

Limiting speed		14 000 r/min
Calculation factor	A	0.0118
Limiting value	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		0.78 kg
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