



QJ 212 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	60 mm
Outside diameter	110 mm
Width	22 mm
Contact angle	35 °

Performance

Basic dynamic load rating	96.5 kN
Basic static load rating	93 kN
Limiting speed	10 000 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

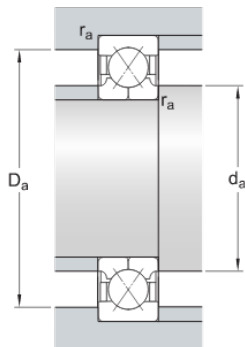


Dimensions

d	60 mm	Bore diameter
D	110 mm	Outside diameter
B	22 mm	Width
d_1	≈ 72 mm	Shoulder diameter inner ring
D_1	≈ 93 mm	Shoulder diameter outer ring/ inner diameter housing washer
a	60 mm	Distance pressure point(s)
$r_{1,2}$	min. 1.5 mm	Chamfer dimension inner ring

Abutment dimensions

d_a	min. 69 mm	Abutment diameter shaft
D_a	max. 101 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	93 kN

Fatigue load limit	P_u	4 kN
Limiting speed		10 000 r/min
Calculation factor	A	0.0242
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		0.99 kg
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