



Image may differ from product. See technical specification for details.

QJ 232 N2MA

Four-point contact ball bearing with locating slots

Four-point contact ball bearings with locating slots 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. The locating slots can be used to prevent the outer ring from rotating.

- 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
- The locating slots can be used to prevent the outer ring from rotating

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	290 mm
Width	48 mm
Contact angle	35 °

Performance

Basic dynamic load rating	450 kN
Basic static load rating	670 kN
Limiting speed	3 800 r/min
SKF performance class	SKF Explorer

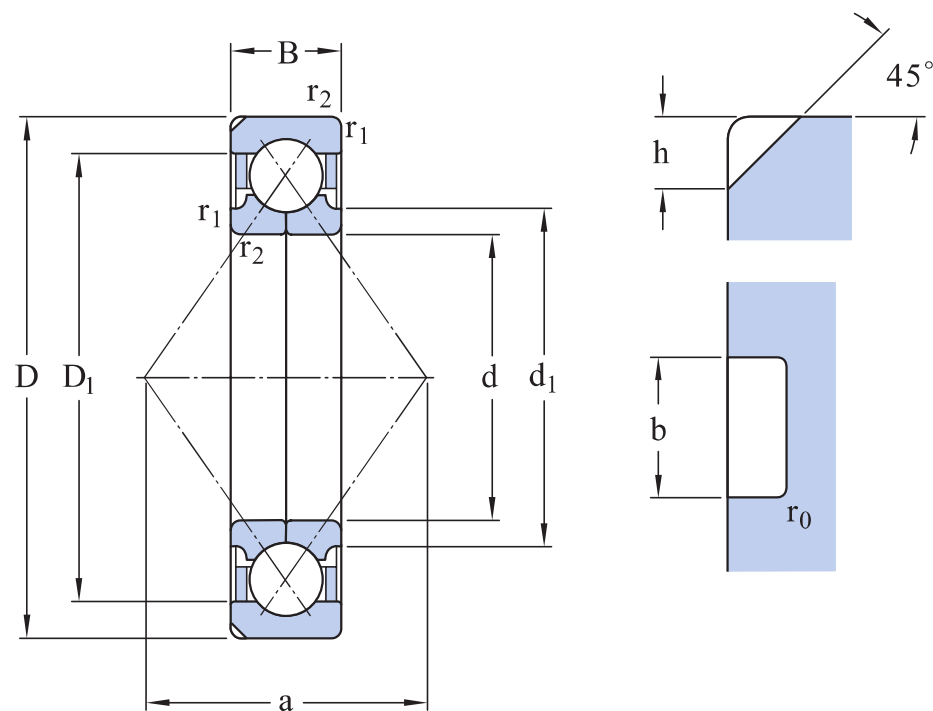
Properties

Contact type	Four-point contact
Number of rows	1
Locating feature, bearing outer ring	Locating slot
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

Logistics

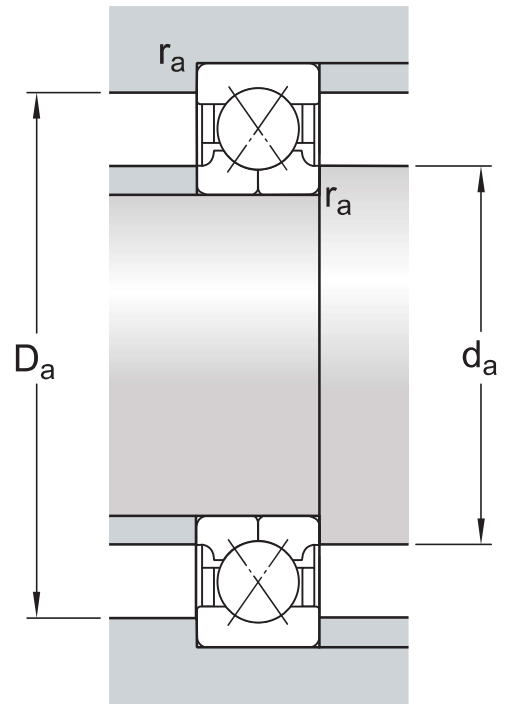
Product net weight	14.7 kg
eClass code	23-05-08-05
UNSPSC code	31171538

Technical specification



Dimensions

d	160 mm	Bore diameter
D	290 mm	Outside diameter
B	48 mm	Width
d ₁	≈ 204 mm	Shoulder diameter inner ring
D ₁	≈ 243 mm	Shoulder diameter outer ring/ inner diameter housing washer
a	158 mm	Distance pressure point(s)
h	12.7 mm	Locating slot depth outer ring
b	10.5 mm	Locating slot width outer ring
r ₀	2 mm	Corner radius locating slot
r _{1,2}	min. 3 mm	Chamfer dimension inner ring



Abutment dimensions

d_a	min. 174 mm	Abutment diameter shaft
D_a	max. 276 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	450 kN
Basic static load rating	C_0	670 kN
Fatigue load limit	P_u	19 kN
Limiting speed		3 800 r/min
Calculation factor	A	1.1
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

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

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

BEARING INTERFACES

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

More Information

 Product details Designs and variants General bearing specifications 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 SKF Product select SimPro Quick Bearing Frequency Calculator LubeSelect for SKF greases Heater selection tool SKF mounting and dismounting instructions
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