



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

C 6912-2NSV/C3

Full complement CARB toroidal roller bearing with integral sealing

CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. This bearing has a lower speed rating and is sealed to minimize the need for lubrication and extend service life.

- Accommodate misalignment and axial displacement within the bearing
- High radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life
- Sealed for increased reliability

Overview

Dimensions

Bore diameter	60 mm
Outside diameter	85 mm
Width	45 mm

Performance

Basic dynamic load rating	190 kN
Basic static load rating	335 kN
SKF performance class	SKF Explorer

Properties

Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	None (full complement bearing)
Radial internal clearance	C3
Tolerance class	Normal
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

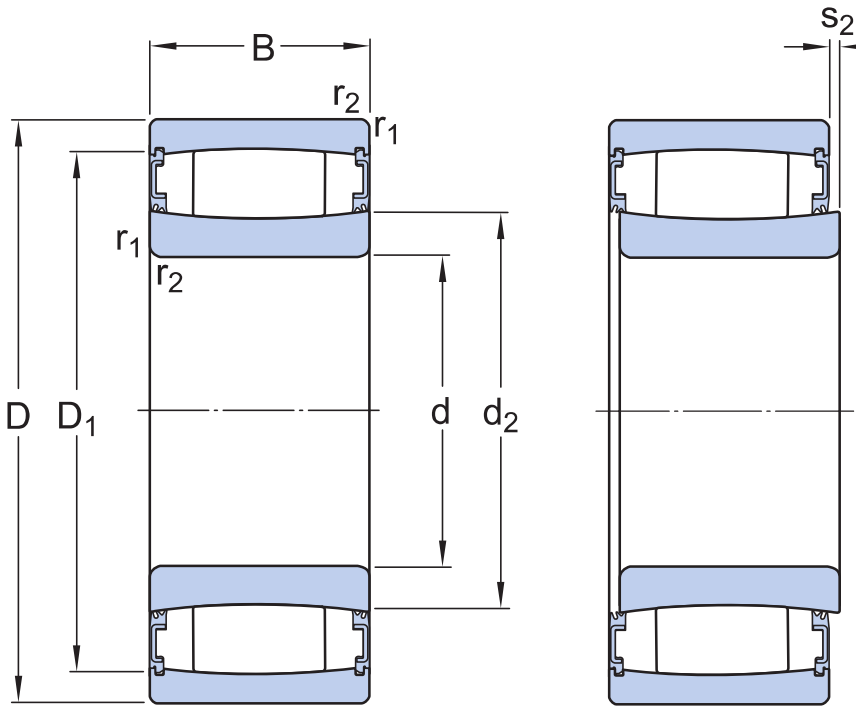
Logistics

Product net weight	0.835 kg
eClass code	23-05-09-13
UNSPSC code	31171505

Technical specification

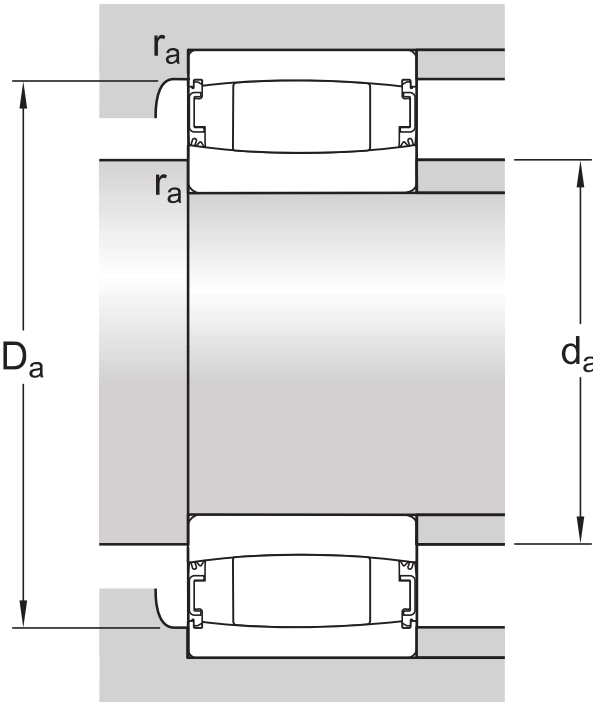
Bore type

Cylindrical



Dimensions

d	60 mm	Bore diameter
D	85 mm	Outside diameter
B	45 mm	Width
d ₂	≈ 68.7 mm	Shoulder diameter of inner ring
D ₁	≈ 77.5 mm	Shoulder or recess diameter of outer ring
s ₂	max. 0.5 mm	Permissible axial displacement
r _{1,2}	min. 1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 64.6 mm	Diameter of shaft abutment
d _a	max. 68.7 mm	Diameter of shaft abutment
D _a	min. 70 mm	Diameter of housing abutment
D _a	max. 80.4 mm	Abutment diameter housing
r _a	max. 1 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	190 kN
Basic static load rating	C ₀	335 kN
Fatigue load limit	P _u	39 kN
Misalignment factor	k ₁	0.108
Internal clearance factor	k ₂	0.096

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

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 Mounting Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing failure and how to prevent it	 Tools SimPro Quick SKF Product select - Select and evaluate bearing SKF Product select - Combine bearing with housing LubeSelect for SKF greases Drive-up Method Program Heater selection tool Oil Injection Method Program Tool and Accessory Selector for sleeves and shafts
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