



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

C 2317

CARB toroidal roller bearing

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. Being SKF Explorer bearings, they can accommodate higher load levels and provide significantly extended service life.

- Accommodate misalignment and axial displacement within the bearing
- High radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life
- Reduce noise and vibration levels

Overview

Dimensions

Bore diameter	85 mm
Outside diameter	180 mm
Width	60 mm

Properties

Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Sealing	Without
Lubricant	None
Relubrication feature	Without

Performance

Basic dynamic load rating	540 kN
Basic static load rating	600 kN
Reference speed	3 200 r/min
Limiting speed	4 300 r/min
SKF performance class	SKF Explorer

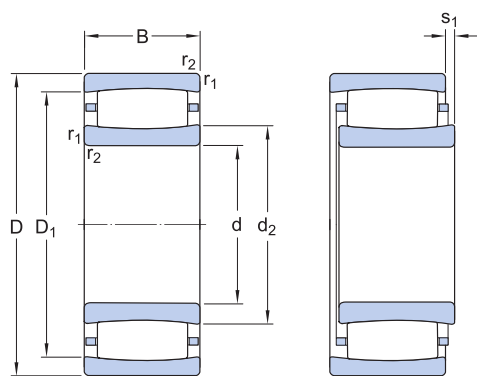
Logistics

Product net weight	7.23 kg
eClass code	23-05-09-13
UNSPSC code	31171505

Technical specification

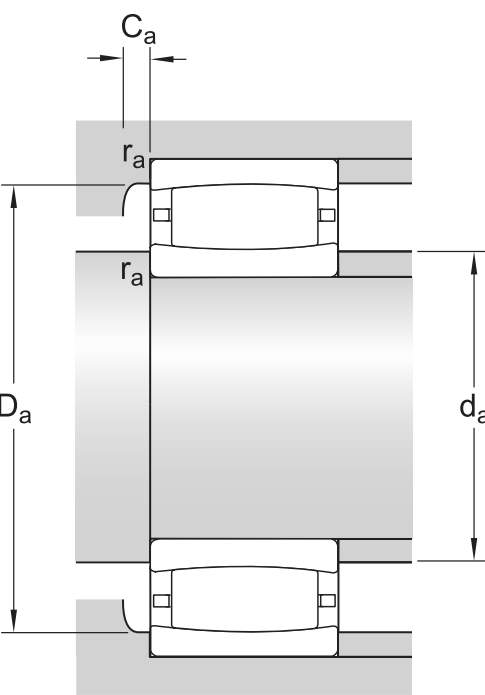
Bore type

Cylindrical



Dimensions

d	85 mm	Bore diameter
D	180 mm	Outside diameter
B	60 mm	Width
d ₂	≈ 110 mm	Shoulder diameter of inner ring
D ₁	≈ 153 mm	Shoulder or recess diameter of outer ring
s ₁	max. 12.1 mm	Permissible axial displacement
r _{1,2}	min. 3 mm	Chamfer dimension



Abutment dimensions

d _a	min. 99 mm	Diameter of shaft abutment
d _a	max. 126 mm	Diameter of shaft abutment
D _a	min. 141 mm	Diameter of housing abutment
D _a	max. 166 mm	Abutment diameter housing
C _a	min. 2.4 mm	Minimum width of space required in housing
r _a	max. 2.5 mm	Radius of fillet

- A negative value for C_a is theoretical.

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	540 kN
Basic static load rating	C ₀	600 kN
Fatigue load limit	P _u	64 kN
Reference speed		3 200 r/min
Limiting speed		4 300 r/min
Misalignment factor	k ₁	0.105

Internal clearance factor	k_2	0.105
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Mass

Mass	7.4 kg
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