



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

C 2218

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	90 mm
Outside diameter	160 mm
Width	40 mm

Performance

Basic dynamic load rating	325 kN
Basic static load rating	380 kN
Reference speed	3 800 r/min
Limiting speed	5 300 r/min
SKF performance class	SKF Explorer

Properties

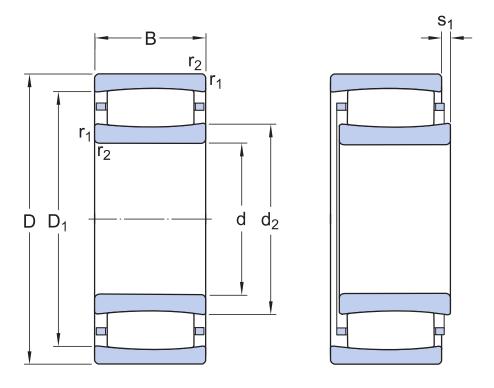
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Sealing	Without
Lubricant	None
Relubrication feature	Without
Candidate for remanufacturing	Yes

Logistics

Product net weight	3.2 kg
eClass code	23-05-09-13
UNSPSC code	31171505

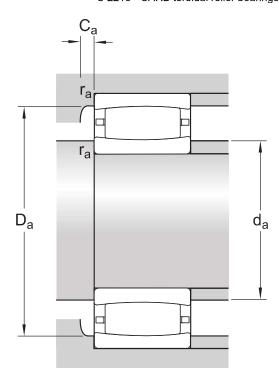
Technical specification

Bore type Cylindrical



Dimensions

d	90 mm	Bore diameter
D	160 mm	Outside diameter
В	40 mm	Width
d ₂	≈ 111 mm	Shoulder diameter of inner ring
D_1	≈ 144 mm	Shoulder or recess diameter of outer ring
s_1	max. 9.5 mm	Permissible axial displacement
r _{1,2}	min. 2 mm	Chamfer dimension



Abutment dimensions

d _a	min. 101 mm	Diameter of shaft abutment
d _a	max. 124 mm	Diameter of shaft abutment
D _a	min. 133 mm	Diameter of housing abutment
D _a	max. 149 mm	Abutment diameter housing
Ca	min. 1.4 mm	Minimum width of space required in housing
r _a	max. 2 mm	Radius of fillet
	A negative value for C_a is theoretical.	Notes - Bullet list

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	325 kN
Basic static load rating	C_0	380 kN
Fatigue load limit	P_{u}	41.5 kN
Reference speed		3 800 r/min
Limiting speed		5 300 r/min
Misalignment factor	k ₁	0.104
Internal clearance factor	k ₂	0.117

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



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