

C 3224 K



NOT FOUND

CARB toroidal roller bearing with tapered bore (1:12)

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	120 mm
Outside diameter	215 mm
Width	76 mm

Performance

Properties

Basic dynamic load rating	750 kN	Number of rows	1
Basic static load rating	980 kN	Locating feature, bearing outer ring	Without
Reference speed	2 400 r/min	Bore type	Tapered 1:12
Limiting speed	3 200 r/min	Cage	Sheet metal
SKF performance class	SKF Explorer	Radial internal clearance	CN
		Sealing	Without
		Lubricant	None
		Relubrication feature	Without

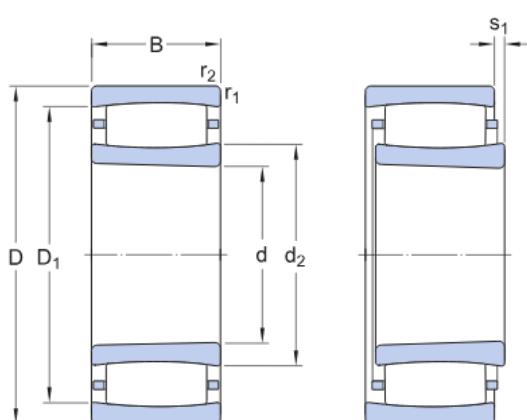
Technical Specification

SKF performance class

SKF Explorer

Bore type

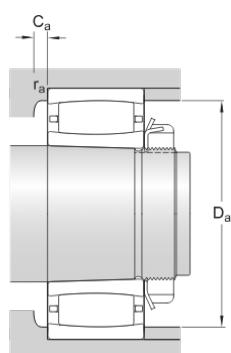
Tapered 1:12



Dimensions

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	76 mm	Width
d_2	≈ 149 mm	Shoulder diameter of inner ring
D_1	≈ 190 mm	Shoulder or recess diameter of outer ring
s_1	max. 17.1 mm	Permissible axial displacement
$r_{1,2}$	min. 2.1 mm	Chamfer dimension

Abutment dimensions



D_a	min. 179 mm	Diameter of housing abutment
D_a	max. 203 mm	Abutment diameter housing
C_a	min. 2.4 mm	Minimum width of space required in housing
r_a	max. 2 mm	Radius of fillet
	A negative value for C_a	

Calculation data

Basic dynamic load rating	C	750 kN
Basic static load rating	C_0	980 kN
Fatigue load limit	P_u	98 kN

Reference speed	2 400	r/min
Limiting speed	3 200	r/min
Misalignment factor	k_1	0.103
Internal clearance factor	k_2	0.108

Mass

Mass	11.5	kg
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