



C 3224 KCARB toroidal roller bearing with tapered bore (1:12)

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

Basic dynamic load rating	750 kN
Basic static load rating	980 kN
Reference speed	2 400 r/min
Limiting speed	3 200 r/min
SKF performance class	SKF Explorer

Properties

Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

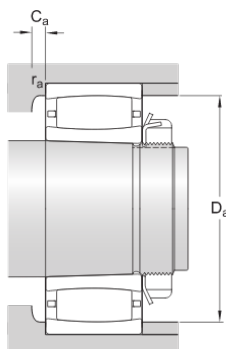
SKF performance class	SKF Explorer
Bore type	Tapered 1:12



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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