

# C 2213 KTN9CARB toroidal roller bearing with tapered bore (1:12)

## 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	65 mm
Outside diameter	120 mm
Width	31 mm

### Performance

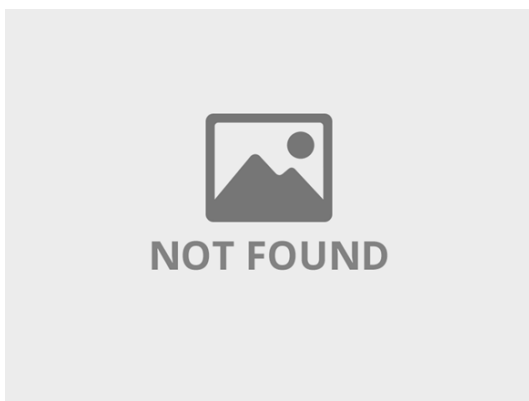
Basic dynamic load rating	180 kN
Basic static load rating	180 kN
Reference speed	5 300 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

### Properties

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

# Technical Specification

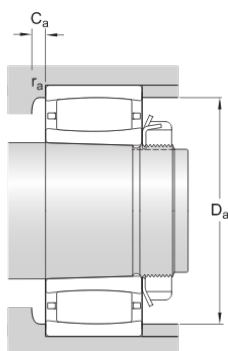
SKF performance class	SKF Explorer
Bore type	Tapered 1:12



## Dimensions

d	65 mm	Bore diameter
D	120 mm	Outside diameter
B	31 mm	Width
$d_2$	≈ 79 mm	Shoulder diameter of inner ring
$D_1$	≈ 106 mm	Shoulder or recess diameter of outer ring
$s_1$	max. 9.6 mm	Permissible axial displacement
$r_{1,2}$	min. 1.5 mm	Chamfer dimension

## Abutment dimensions



$D_a$	min. 102 mm	Diameter of housing abutment
$D_a$	max. 111 mm	Abutment diameter housing
$C_a$	min. 0.2 mm	Minimum width of space required in housing
$r_a$	max. 1.5 mm	Radius of fillet
A negative value for $C_a$		

## Calculation data

Basic dynamic load rating	C	180 kN
Basic static load rating	$C_0$	180 kN

Fatigue load limit	$P_u$	21.2 kN
Reference speed		5 300 r/min
Limiting speed		7 500 r/min
Misalignment factor	$k_1$	0.097
Internal clearance factor	$k_2$	0.127

## Mass

Mass		1.4 kg
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