



C 3036 KCARB toroidal roller bearing with tapered bore (1:12)

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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	180 mm
Outside diameter	280 mm
Width	74 mm

Performance

Basic dynamic load rating	880 kN
Basic static load rating	1 340 kN
Reference speed	2 000 r/min
Limiting speed	2 600 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

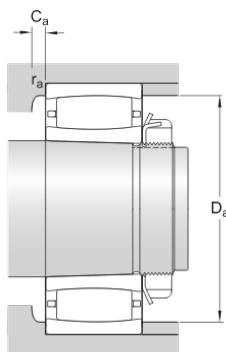
SKF performance class	SKF Explorer
Bore type	Tapered 1:12



Dimensions

d	180 mm	Bore diameter
D	280 mm	Outside diameter
B	74 mm	Width
d_2	≈ 209 mm	Shoulder diameter of inner ring
D_1	≈ 251 mm	Shoulder or recess diameter of outer ring
s_1	max. 15.1 mm	Permissible axial displacement
$r_{1,2}$	min. 2.1 mm	Chamfer dimension

Abutment dimensions



D_a	min. 239 mm	Diameter of housing abutment
D_a	max. 269 mm	Abutment diameter housing
C_a	min. 2 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	880 kN
Basic static load rating	C_0	1 340 kN

Fatigue load limit	P_u	122 kN
Reference speed		2 000 r/min
Limiting speed		2 600 r/min
Misalignment factor	k_1	0.112
Internal clearance factor	k_2	0.105

Mass

Mass		16.5 kg
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