



SKF C 3036 K

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.

Technical specifications

General	
Bore type	Tapered 1:12

Dimensions	
Bore diameter	180 mm
Outside diameter	280 mm
Width	74 mm
Shoulder diameter of inner ring	209 mm
Shoulder or recess diameter of outer ring	251 mm
Permissible axial displacement	15.1 mm
Chamfer dimension	2.1 mm

Abutment dimensions	
Diameter of housing abutment	239 mm
Abutment diameter housing	269 mm
Minimum width of space required in housing	2 mm
Radius of fillet	2 mm
	A negative value for C _a is theoretical.

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	880 kN
Basic static load rating	1340 kN
Fatigue load limit	122 kN
Reference speed	2000 r/min
Limiting speed	2600 r/min
Misalignment factor	0.11
Internal clearance factor	0.11

Performance	
Basic dynamic load rating	880 kN
Basic static load rating	1340 kN
Reference speed	2000 r/min
Limiting speed	2600 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
Candidate for remanufacturing	Yes

Indicative carbon footprint for new product	58 kg CO ₂ e
Indicative carbon footprint for remanufactured product	20.3 kg CO ₂ e

Logistics	
Product net weight	16.1 kg
eClass code	23-05-09-13
UNSPSC code	31171505

SKF drawings

