



SKF C 2216

CARB toroidal roller bearing

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	Cylindrical

Dimensions	
Bore diameter	80 mm
Outside diameter	140 mm
Width	33 mm
Shoulder diameter of inner ring	98.1 mm
Shoulder or recess diameter of outer ring	125 mm
Permissible axial displacement	9.1 mm
Chamfer dimension	2 mm

Abutment dimensions	
Diameter of shaft abutment	91 mm
Diameter of shaft abutment	107 mm
Diameter of housing abutment	116 mm
Abutment diameter housing	129 mm
Minimum width of space required in housing	1.2 mm
Radius of fillet	2 mm
	A negative value for C_{a_a} is theoretical.

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	220 kN
Basic static load rating	250 kN
Fatigue load limit	28.5 kN
Reference speed	4300 r/min
Limiting speed	6000 r/min
Misalignment factor	0.1
Internal clearance factor	0.12

Performance	
Basic dynamic load rating	220 kN
Basic static load rating	250 kN
Reference speed	4300 r/min
Limiting speed	6000 r/min
SKF performance class	SKF Explorer

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

Relubrication feature	Without
Indicative carbon footprint for new product	7.2 kg CO ₂ e

Logistics	
Product net weight	2 kg
eClass code	23-05-09-13
UNSPSC code	31171505

SKF drawings

