

C 6915-2CS5V/C3Full complement CARB toroidal roller bearing with integral sealing

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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. This bearing has a lower speed rating and is sealed to minimize the need for lubrication and extend service life.

- Accommodate misalignment and axial displacement within the bearing
- High radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life
- Sealed for increased reliability

Overview

Dimensions

Bore diameter	75 mm
Outside diameter	105 mm
Width	54 mm

Performance

Basic dynamic load rating	204 kN
Basic static load rating	325 kN
Limiting speed	140 r/min
SKF performance class	SKF Explorer

Properties

Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	None (full complement bearing)
Radial internal clearance	C3
Tolerance class	Normal
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease

Relubrication feature	Without

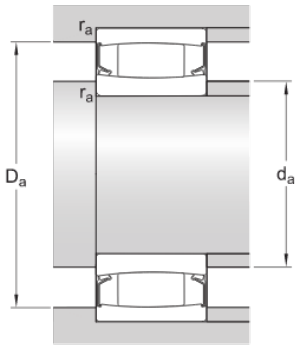
Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical

NOT FOUND

Dimensions

d	75 mm	Bore diameter
D	105 mm	Outside diameter
B	54 mm	Width
d_2	≈ 83.6 mm	Shoulder diameter of inner ring
D_1	≈ 95.5 mm	Shoulder or recess diameter of outer ring
s_2	max. 7.1 mm	Permissible axial displacement
$r_{1,2}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 79.6 mm	Diameter of shaft abutment
d_a	max. 83.6 mm	Diameter of shaft abutment
D_a	min. 86 mm	Diameter of housing abutment
D_a	max. 100.4 mm	Abutment diameter housing
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	204 kN
Basic static load rating	C_0	325 kN

Fatigue load limit	P_u	37.5 kN
Limiting speed		140 r/min
Misalignment factor	k_1	0.073
Internal clearance factor	k_2	0.154

Mass

Mass	1.4 kg

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