



Image may differ from product. See technical specification for details.

C 2217 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.

- 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 | 85 mm |
| Outside diameter | 150 mm |
| Width | 36 mm |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 275 kN |
| Basic static load rating | 320 kN |
| Reference speed | 4 000 r/min |
| Limiting speed | 5 600 r/min |
| SKF performance class | SKF Explorer |

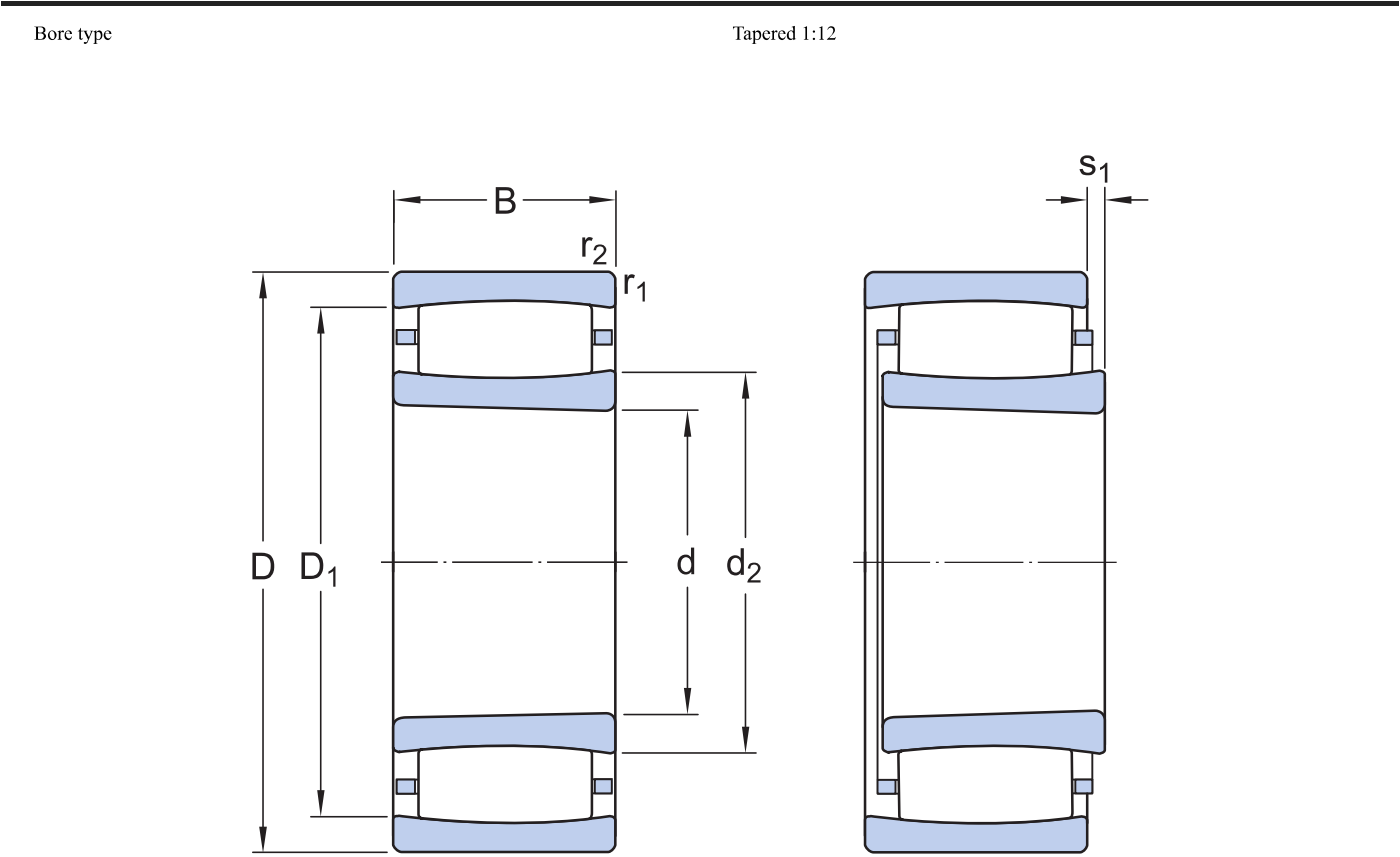
Properties

| | |
|--------------------------------------|--------------|
| 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 |
| Candidate for remanufacturing | Yes |

Logistics

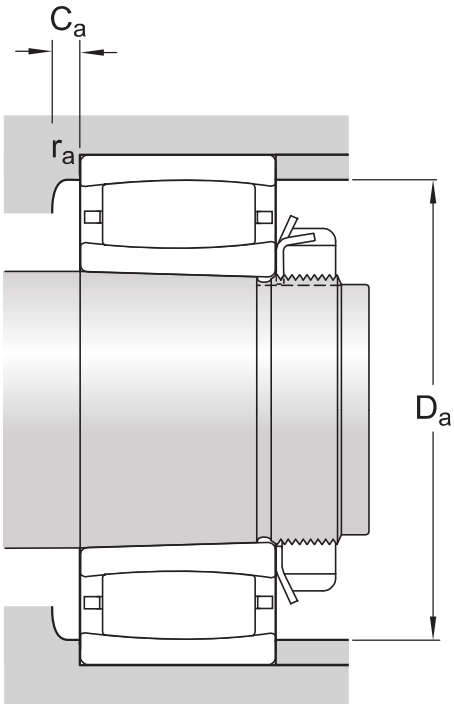
| | |
|--------------------|-------------|
| Product net weight | 2.56 kg |
| eClass code | 23-05-09-13 |
| UNSPSC code | 31171505 |

Technical specification



Dimensions

| | | |
|------------------|-------------|---|
| d | 85 mm | Bore diameter |
| D | 150 mm | Outside diameter |
| B | 36 mm | Width |
| d ₂ | ≈ 103 mm | Shoulder diameter of inner ring |
| D ₁ | ≈ 133 mm | Shoulder or recess diameter of outer ring |
| s ₁ | max. 7.1 mm | Permissible axial displacement |
| r _{1,2} | min. 2 mm | Chamfer dimension |



Abutment dimensions

| | | |
|--|-------------|--|
| D_a | min. 123 mm | Diameter of housing abutment |
| D_a | max. 139 mm | Abutment diameter housing |
| C_a | min. 1.3 mm | Minimum width of space required in housing |
| r_a | max. 2 mm | Radius of fillet |
| A negative value for C_a is theoretical. | | Notes - Bullet list |

Calculation data

| | | |
|---------------------------|-------|--------------|
| SKF performance class | | SKF Explorer |
| Basic dynamic load rating | C | 275 kN |
| Basic static load rating | C_0 | 320 kN |
| Fatigue load limit | P_u | 35.5 kN |
| Reference speed | | 4 000 r/min |
| Limiting speed | | 5 600 r/min |
| Misalignment factor | k_1 | 0.114 |
| Internal clearance factor | k_2 | 0.105 |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES




- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

Compatible products

Recommended product

| | |
|--|--------------------------------|
| Withdrawal sleeve, basic design, ISO standards | AHX 317 |
| Adapter sleeve with KM lock nut and MB lock washer, metric dimensions | H 317 |
| Adapter sleeve with KMFE lock nut, metric dimensions | H 317 E |
| Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore | HA 317 |
| Adapter sleeve | HA 317 E |
| Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore | HE 317 |
| Adapter sleeve | HE 317 E |
| Adapter sleeve with AN or N lock nut and W lock washer, inch dimensions | SNW 17X2.15/16 |

More Information

| | | |
|---|--|---|
| <div> Product details</div> <div><div>Designs and variants</div><div>General bearing specifications</div><div>Loads</div><div>Temperature limits</div><div>Permissible speed</div><div>Design considerations</div><div>Mounting</div><div>Designation system</div></div> | <div> Engineering information</div> <div><div>Principles of rolling bearing selection</div><div>General bearing knowledge</div><div>Bearing selection process</div><div>Bearing failure and how to prevent it</div></div> | <div> Tools</div> <div><div>SimPro Quick</div><div>SKF Product select - Select and evaluate bearing</div><div>SKF Product select - Combine bearing with housing</div><div>LubeSelect for SKF greases</div><div>Drive-up Method Program</div><div>Heater selection tool</div><div>Oil Injection Method Program</div><div>Tool and Accessory Selector for sleeves and shafts</div></div> |
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