Hans Saurer Kugellager AG
Niederfeld 38
CH-9320 Stachen

# data sheet

## general data/description

created: 25.02.2025 / 02



**article** 3006 B TN 2RS LX5 **Art-No.** 54095

**brand** SKA **weight/kg** 0.16

**remark** Y-factors: Y1: Fa/Fr <= e / Y2: Fa/Fr > e.

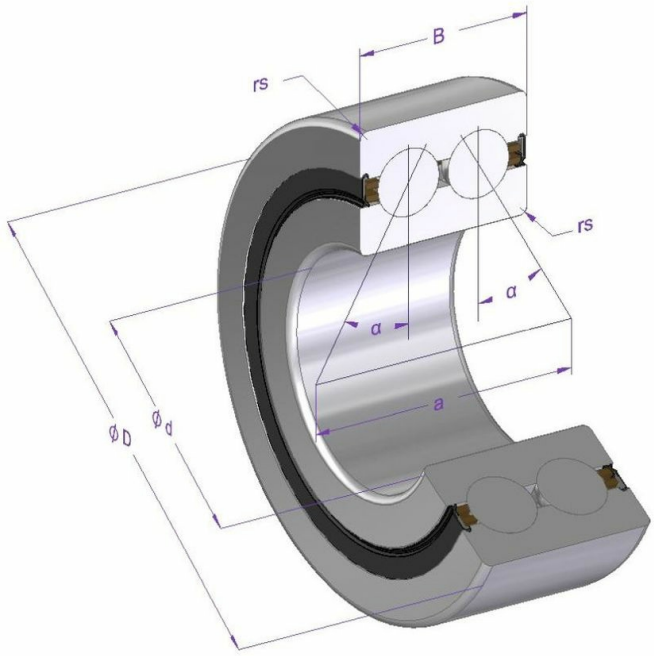
**description**

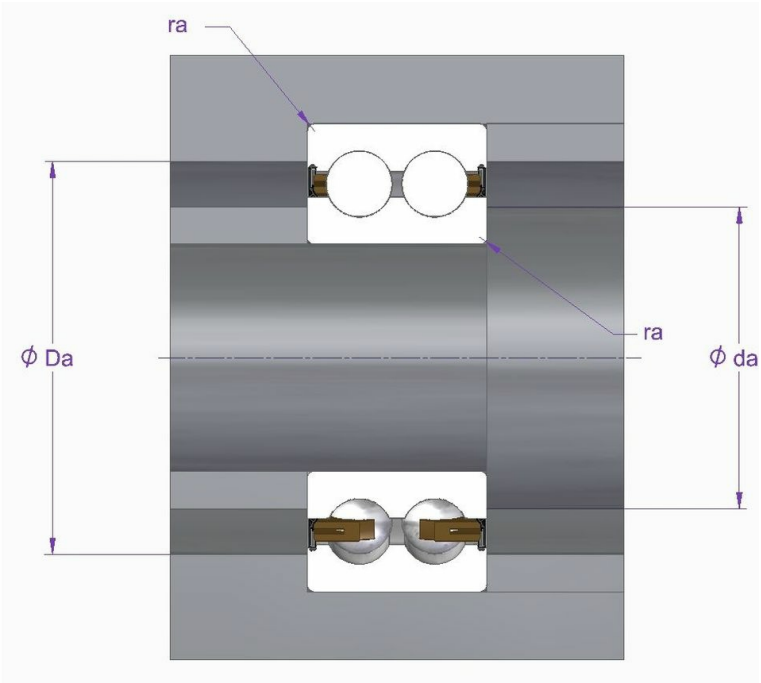
| | |
|---|---|
| 3006 | Size |
| B | Pressure angle |
| TN | Plastic cage |
| 2RS | Sealing washers on both sides, touching |

**greasing**

| | |
|---|---|
| LX5 | SHELL GADUS S2 V100 3 |

## dimensions and tolerances




| dimension | Description | [mm] | tolerance [µm] | DIN/ISO |
|---|---|---|---|---|
| d | nominal inner diameter | 30 | 0 / -10 | 620-2 |
| D | nominal outer diameter | 55 | 0 / -13 | 620-2 |
| B | width | 19 | 0 / -120 | 620-2 |
| rs min. | minimal chamfer dimension | 1 | | 616 |
| a | load application point | ~32 | | |
| alpha | contact angle | 30° | | 628-3 |
| Da max. | mounting dimension | 49.4 | | WERKSNORM |
| da min. | mounting dimension | 35.5 | | WERKSNORM |
| ra max. | mounting dimension | 1 | | WERKSNORM |
| e | calculation factor | 0.8 | | 281 |
| Y1 | calculation factor | 0.78 | | 281 |
| Y2 | calculation factor | 1.24 | | 281 |
| Y0 | calculation factor | 0.66 | | 76 |
| X | calculation factor | 0.63 | | 281 |

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## calculation and operating data

| | | | | | | |
|---|---|---|---|---|---|---|
| **load ratings** | **dynamic C [N]** | **fatique load limit load Cu [N]** | | **DIN/ISO** | **static Co [N]** | **DIN/ISO** |
| | 19200 | 770 | | 281 | 14900 | 76 |
| **speed of rotation limit** | **reference n [1/min]** | **grease n [1/min]** | **oil n [1/min]** | | | |
| | | 6700 | | | | |
| **operating temperature** | **max. [°C]** | **min. [°C]** | | | | |
| | 120 | -30 | | | | |
| **bearing clearance** | **axial min. [µm]** | **max. [µm]** | | | | |
| | 8 | 27 | | | | |

## material specification

| description | material | DIN/ISO | hardness |
|---|---|---|---|
| Inner ring | 100Cr6 | 683-17 | 58-65 |
| Outer ring | 100Cr6 | 683-17 | 58-65 |
| Balls | 100Cr6 | 683-17 | 58-66 |
| Cage | PA66+GF25 | | |
| Sealing washers | St12/NBR | | |

All information in this document was provided and checked carefully. Nevertheless, we can not assume any liability for incomplete or faulty information.