Hans Saurer Kugellager AG
Niederfeld 38
CH-9320 Stachen

# data sheet

## general data/description

created: 18.04.2016 / 06



**article** 3805 B TN 2RS NS7 **Art-No.** 45821

**brand** SKA **weight/kg** 0.025

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

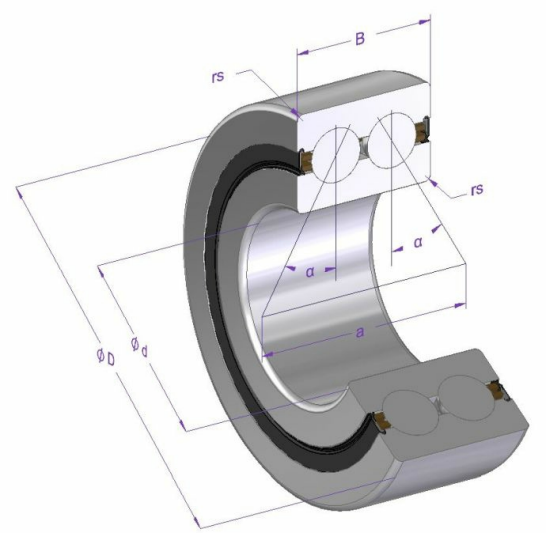
**description**

| | |
|---|---|
| 3805 | Size |
| B | Pressure angle |
| TN | Plastic cage |
| 2RS | Sealing washers on both sides, touching |

**greasing**

| | |
|---|---|
| NS7 | KYODO YUSHI MULTEMP SRL |

## dimensions and tolerances




| dimension | Description | [mm] | tolerance [µm] | DIN/ISO |
|---|---|---|---|---|
| d | nominal inner diameter | 25 | 0 / -10 | 620-2 |
| D | nominal outer diameter | 37 | 0 / -11 | 620-2 |
| B | width | 10 | 0 / -120 | 620-2 |
| rs min. | minimal chamfer dimension | 0.3 | | 616 |
| alpha | contact angle | 30° | | 628-3 |
| a | load application point | ~21.4 | | |
| 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 |

## calculation and operating data

| | | | | | |
|---|---|---|---|---|---|
| **load ratings** | **dynamic C [N]** | **fatique load limit load Cu [N]** | **DIN/ISO** | **static Co [N]** | **DIN/ISO** |
| | 5470 | 250 | 281 | 4950 | 76 |

| | | | |
|---|---|---|---|
| **speed of rotation limit** | **reference n [1/min]** | **grease n [1/min]** | **oil n [1/min]** |
| | | 8500 | |

| | | |
|---|---|---|
| **operating temperature** | **max. [°C]** | **min. [°C]** |
| | 120 | -20 |

| | | |
|---|---|---|
| **bearing clearance** | **axial min. [µm]** | **max. [µm]** |
| | 8 | 27 |

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## 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.