Hans Saurer Kugellager AG
Niederfeld 38
CH-9320 Stachen

# data sheet

## general data/description



**article** B 7008 E T U M P4S BI4 **Art-No.** 50965

**brand** SKA **weight/kg** 0.208

**remark** Tolerance class P4S: dimensional accuracy P4, running accuracy P2, according DIN 620-2. The tolerances and the load rating and rotation speed information refer to the single bearing. The valid factors for bearing sets must be observed. In case of doubt, contact the technical service of SKA.

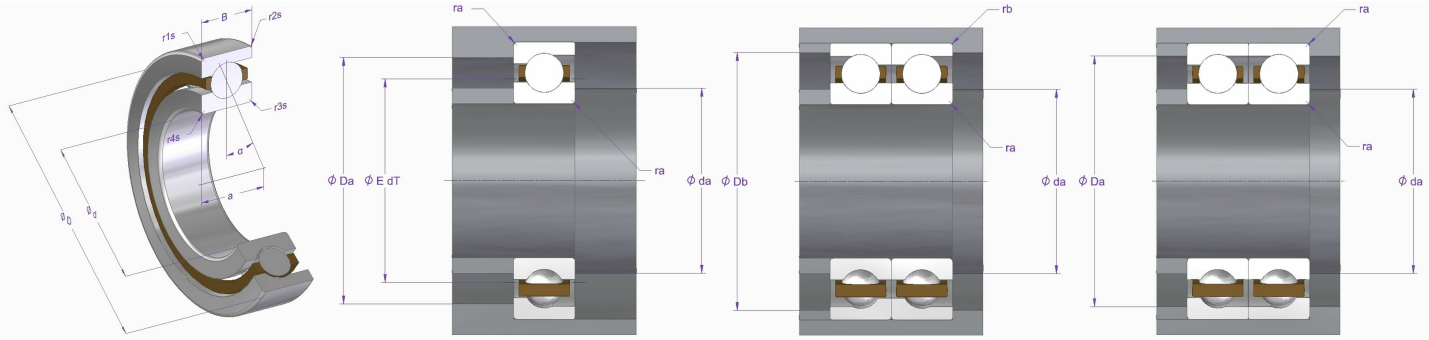
**description**

| | |
|---|---|
| B | Design |
| 7008 | Size |
| E | Pressure angle |
| T | Hard tissue cage |
| U | Universally pairable |
| M | Medium preload |
| P4S | Tolerance class |

**greasing**

| | |
|---|---|
| BI4 | KLÜBER ISOFLEX NBU 15 |

## dimensions and tolerances




| dimension | Description | [mm] | tolerance [µm] | DIN/ISO |
|---|---|---|---|---|
| d | nominal inner diameter | 40 | 0 / -6 | 620-2 |
| D | nominal outer diameter | 68 | 0 / -7 | 620-2 |
| B | width | 15 | 0 / -120 | 620-2 |
| r1s min. | minimal chamfer dimension | 1 | | 628-6 |
| r2s min. | minimal chamfer dimension | 0.6 | | WERKSNORM |
| r3s min. | minimal chamfer dimension | 1 | | 628-6 |
| r4s min. | minimal chamfer dimension | 1 | | 628-6 |
| a | load application point | ~20.1 | | |
| alpha | contact angle | 25° | | |
| Fv | pretension [N] | 543 | | |
| c | axial stiffness [N/µm] | 164.8 | | |
| KaE | Lift-off force [N] | 1640 | | |
| Da max. | mounting dimension | 62 | | WERKSNORM |
| da min. | mounting dimension | 46 | | WERKSNORM |
| ra max. | mounting dimension | 1 | | 628-6 |
| Db max. | mounting dimension | 62.4 | | WERKSNORM |
| rb max. | mounting dimension | 0.3 | | 628-6 |
| E dT min. | Minimum diameter injection pitch | 50.2 | | WERKSNORM |
| E dT max. | Maximum diameter injection pitch | 50.6 | | WERKSNORM |

## calculation and operating data

| load ratings | dynamic C [N] | fatique load limit load Cu [N] | DIN/ISO | static Co [N] | DIN/ISO |
|---|---|---|---|---|---|
| | 19500 | 787 | 281 | 15100 | 76 |

| speed of rotation limit | reference n [1/min] | grease n [1/min] | oil n [1/min] |
|---|---|---|---|
| | | 20000 | |

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

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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 | PF | | |

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