



**FAG**

**BSB4072-SU-XL** [↗](#)

Axial angular contact ball bearing

Axial angular contact ball bearing BSB...-SU-XL, single direction, no screw mounting

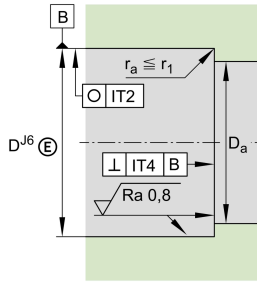
**X-life**

Technical information



**Your current product variant**

|                         |          |                |
|-------------------------|----------|----------------|
| Cage                    | Standard | Polyamide cage |
| Sealing                 | Without  |                |
| Arrangement bearing set | SU       | Single bearing |
| Lubricant               | Without  | Not greased    |



### Main Dimensions & Performance Data

|                          |             |                                       |
|--------------------------|-------------|---------------------------------------|
| d                        | 40 mm       | Bore diameter                         |
|                          | 0 mm        | Bore diameter upper tolerance         |
|                          | -0,006 mm   | Bore diameter lower tolerance         |
| D                        | 72 mm       | Outside diameter                      |
|                          | 0 mm        | Outside diameter upper tolerance      |
|                          | -0,007 mm   | Outside diameter lower tolerance      |
| B                        | 15 mm       | Width                                 |
|                          | 0 mm        | Width upper tolerance                 |
|                          | -0,12 mm    | Width lower tolerance                 |
| C <sub>a</sub>           | 40.500 N    | Basic dynamic load rating, axial      |
| C <sub>0a</sub>          | 89.000 N    | Basic static load rating, axial       |
| C <sub>ua</sub>          | 5.400 N     | Fatigue load limit, axial             |
| n <sub>G</sub><br>Grease | 5.400 1/min | Limiting speed for grease lubrication |
| n <sub>g</sub>           | 4.700 1/min | Thermally safe operating speed        |
| ≈m                       | 0,25 kg     | Weight                                |

### Mounting dimensions

|                |       |                               |
|----------------|-------|-------------------------------|
| D <sub>a</sub> | 65 mm | Diameter of housing           |
| D <sub>a</sub> | H12   | Diameter of housing clearance |
| d <sub>a</sub> | 47 mm | Diameter shaft                |
| d <sub>a</sub> | h12   | Diameter shaft clearance      |

### Dimensions

|                    |         |   |
|--------------------|---------|---|
| r <sub>min</sub>   | 1 mm    | Minimum chamfer dimension                         |
| r <sub>1 min</sub> | 0,6 mm  | Minimum chamfer dimension                         |
| a                  | 48,5 mm | Distance between the apexes of the pressure cones |
| α                  | 60 °    | Contact angle                                     |





### Temperature range

|           |        |                            |
|-----------|--------|----------------------------|
| $T_{min}$ | -30 °C | Operating temperature min. |
| $T_{max}$ | 120 °C | Operating temperature max. |

### Additional information

|          |            |   |
|----------|------------|---|
| $M_R$    | 0,18 Nm    | Bearing frictional torque                                   |
| $c_{aL}$ | 1.235 N/μm | Rigidity axial  |
|          | 2,5 μm     | Axial runout  |
|          | ZM40       | Recommended INA precision locknut for radial locking        |
|          | AM40       | Recommended INA precision locknut for axial locking         |
| $M_A$    | 60 Nm      | Tightening torque for the recommended INA precision locknut |
|          | 15.650 N   | Required locknut force axial                                |

### Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed