

**FAG**

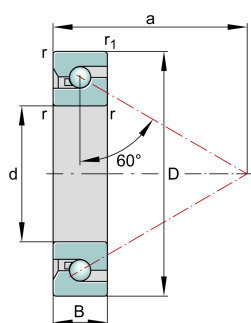
## BSB45100-SU-XL [🔗](#)

Axial angular contact ball bearing

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

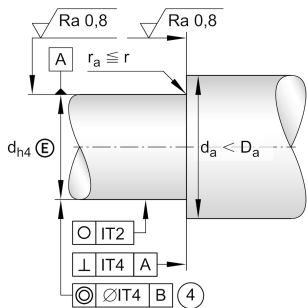
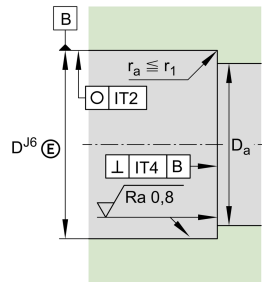
**X-life**

### Informacje techniczne



#### Twoja aktualna wersja produktu

|                         |          |                |
|-------------------------|----------|----------------|
| Cage                    | Standard | Polyamide cage |
| Type of Seal            | Without  |                |
| Arrangement bearing set | SU       | Single bearing |
| Lubricant               | Without  | Not greased    |



### Main Dimensions & Performance Data

|                          |             |                                       |
|--------------------------|-------------|---------------------------------------|
| d                        | 45 mm       | Bore diameter                         |
|                          | 0 mm        | Bore diameter upper tolerance         |
|                          | -0,006 mm   | Bore diameter lower tolerance         |
| D                        | 100 mm      | Outside diameter                      |
|                          | 0 mm        | Outside diameter upper tolerance      |
|                          | -0,008 mm   | Outside diameter lower tolerance      |
| B                        | 20 mm       | Width                                 |
|                          | 0 mm        | Width upper tolerance                 |
|                          | -0,12 mm    | Width lower tolerance                 |
| C <sub>a</sub>           | 68.000 N    | Basic dynamic load rating, axial      |
| C <sub>0a</sub>          | 172.000 N   | Basic static load rating, axial       |
| C <sub>ua</sub>          | 10.400 N    | Fatigue load limit, axial             |
| n <sub>G</sub><br>Grease | 4.000 1/min | Limiting speed for grease lubrication |
| n <sub>g</sub>           | 2.700 1/min | Thermally safe operating speed        |
| ≈m                       | 0,804 kg    | Masa                                  |

### Mounting dimensions

|                |         |                               |
|----------------|---------|-------------------------------|
| D <sub>a</sub> | 85,5 mm | Diameter of housing           |
| D <sub>a</sub> | H12     | Diameter of housing clearance |
| d <sub>a</sub> | 64,5 mm | Diameter shaft                |
| d <sub>a</sub> | h12     | Diameter shaft clearance      |

### Dimensions

|                    |        |                                                   |
|--------------------|--------|---------------------------------------------------|
| r <sub>min</sub>   | 1,5 mm | Minimum chamfer dimension                         |
| r <sub>1 min</sub> | 1,5 mm | Minimum chamfer dimension                         |
| a                  | 75 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

|          |            |                                                             |
|----------|------------|-------------------------------------------------------------|
| $M_R$    | 0,33 Nm    | Bearing frictional torque                                   |
| $c_{aL}$ | 1.473 N/μm | Rigidity axial                                              |
|          | 2,5 μm     | Axial runout                                                |
|          | ZM50       | Recommended INA precision locknut for radial locking        |
|          | AM50       | Recommended INA precision locknut for axial locking         |
| $M_A$    | 120 Nm     | Tightening torque for the recommended INA precision locknut |
|          | 23.770 N   | Required locknut force axial                                |

### Właściwości

|  |                                   |
|--|-----------------------------------|
|  | Obciążenie promieniowe            |
|  | Obciążenie osiowe jednokierunkowe |
|  | Smarowanie smarem                 |
|  | Smarowanie olejem                 |
|  | Bez uszczelnienia                 |