

**FAG**

### **BSB4090-SU-XL-L055** [🔗](#)

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                       |
| Type of Seal            | Without  |                                      |
| Arrangement bearing set | SU       | Single bearing                       |
| Lubricant               | L055     | Greased with Arcanol MULTITOP (L055) |



### Main Dimensions & Performance Data

|                 |             |                                       |
|-----------------|-------------|---------------------------------------|
| d               | 40 mm       | Bore diameter                         |
|                 | 0 mm        | Bore diameter upper tolerance         |
|                 | -0,006 mm   | Bore diameter lower tolerance         |
| D               | 90 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                 |
| $C_a$           | 65.000 N    | Basic dynamic load rating, axial      |
| $C_{0a}$        | 153.000 N   | Basic static load rating, axial       |
| $C_{ua}$        | 9.300 N     | Fatigue load limit, axial             |
| $n_G$<br>Grease | 4.500 1/min | Limiting speed for grease lubrication |
| $n_g$           | 3.100 1/min | Thermally safe operating speed        |
| $\approx m$     | 0,64 kg     | Weight                                |

### Mounting dimensions

|       |         |                               |
|-------|---------|-------------------------------|
| $D_a$ | 75,5 mm | Diameter of housing           |
| $D_a$ | H12     | Diameter of housing clearance |
| $d_a$ | 56,5 mm | Diameter shaft                |
| $d_a$ | h12     | Diameter shaft clearance      |

### Dimensions

|             |        |   |
|-------------|--------|---|
| $r_{min}$   | 1,5 mm | Minimum chamfer dimension                         |
| $r_{1 min}$ | 1,5 mm | Minimum chamfer dimension                         |
| a           | 67 mm  | Distance between the apexes of the pressure cones |
| $\alpha$    | 60 °   | Contact angle                                     |








### Temperature range

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

### Additional information

|          |            |   |
|----------|------------|---|
| $M_R$    | 0,23 Nm    | Bearing frictional torque                                   |
| $c_{aL}$ | 1.390 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         |
| $M_A$    | 110 Nm     | Tightening torque for the recommended INA precision locknut |
|          | 26.080 N   | Required locknut force axial                                |

### Characteristics

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