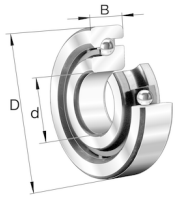



FAG

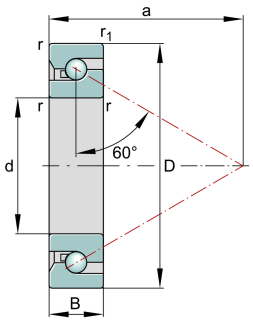
# BSB4072-SU-XL-L055

Axial angular contact ball bearing

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

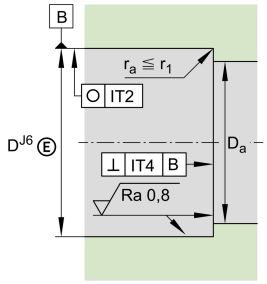
X-life

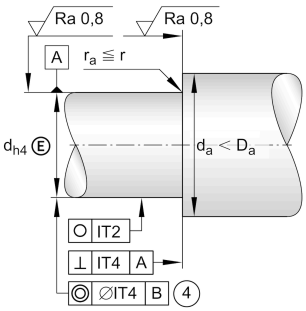
## Technical information




### Your current product variant

| | | |
|---|---|---|
| Cage | Standard | Polyamide cage |
| Sealing | 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 | 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 |
| $C_a$ | 40.500 N | Basic dynamic load rating, axial |
| $C_{0a}$ | 89.000 N | Basic static load rating, axial |
| $C_{ua}$ | 5.400 N | Fatigue load limit, axial |
| $n_G$ Grease | 5.400 1/min | Limiting speed for grease lubrication |
| $n_\vartheta$ | 4.700 1/min | Thermally safe operating speed |
| ≈m | 0,252 kg | Weight |

## Mounting dimensions

| | | |
|---|---|---|
| $D_a$ | 65 mm | Diameter of housing |
| $D_a$ | H12 | Diameter of housing clearance |
| $d_a$ | 47 mm | Diameter shaft |
| $d_a$ | h12 | Diameter shaft clearance |

## Dimensions

| | | |
|---|---|---|
| $r_{min}$ | 1 mm | Minimum chamfer dimension |
| $r_{1\,min}$ | 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