

FAG

BSB45100-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 |
| 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 _a | 68.000 N | Basic dynamic load rating, axial |
| C _{0a} | 172.000 N | Basic static load rating, axial |
| C _{ua} | 10.400 N | Fatigue load limit, axial |
| n _G Grease | 4.000 1/min | Limiting speed for grease lubrication |
| n _g | 2.700 1/min | Thermally safe operating speed |
| ≈m | 0,804 kg | Weight |

Mounting dimensions

| | | |
|----------------|---------|-------------------------------|
| D _a | 85,5 mm | Diameter of housing |
| D _a | H12 | Diameter of housing clearance |
| d _a | 64,5 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 | 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 |

Characteristics

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