



**FAG**

### **BSB60120-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	60 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,007 mm	Bore diameter lower tolerance
D	120 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
	-0,15 mm	Width lower tolerance
C <sub>a</sub>	71.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	196.000 N	Basic static load rating, axial
C <sub>ua</sub>	11.900 N	Fatigue load limit, axial
n <sub>G</sub> Grease	3.800 1/min	Limiting speed for grease lubrication
n <sub>g</sub>	2.300 1/min	Thermally safe operating speed
≈m	1,11 kg	Weight

### Mounting dimensions

D <sub>a</sub>	100,5 mm	Diameter of housing
D <sub>a</sub>	H12	Diameter of housing clearance
d <sub>a</sub>	79,5 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	88 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

$M_R$	0,38 Nm	Bearing frictional torque
$c_{aL}$	1.623 N/μm	Rigidity axial
	3 μm	Axial runout
	ZM60	Recommended INA precision locknut for radial locking
	AM60	Recommended INA precision locknut for axial locking
$M_A$	120 Nm	Tightening torque for the recommended INA precision locknut
	20.020 N	Required locknut force axial

### Characteristics

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