




**FAG**

**BSB4090-2Z-SU-XL** 

Axial angular contact ball bearing

Axial angular contact ball bearing BSB...-2Z-SU-XL, single direction, no screw mounting

**X-life**

### Technical information



#### Your current product variant

Cage	Standard	Polyamide cage
Type of Seal	2Z	Minimal gap seal on both sides
Arrangement bearing set	SU	Single bearing
Lubricant	Without	Not greased



**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 <sub>a</sub>	65.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	153.000 N	Basic static load rating, axial
C <sub>ua</sub>	9.300 N	Fatigue load limit, axial
n <sub>G Grease</sub>	4.500 1/min	Limiting speed for grease lubrication
n <sub>g</sub>	3.100 1/min	Thermally safe operating speed
≈m	0,65 kg	Weight

**Mounting dimensions**

D <sub>a</sub>	75,5 mm	Diameter of housing
D <sub>a</sub>	H12	Diameter of housing clearance
d <sub>a</sub>	56,5 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	67 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

$M_R$	0,23 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
-  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides