



FAG

### BSB45100-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	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 <sub>a</sub>	68.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	172.000 N	Basic static load rating, axial
C <sub>ua</sub>	10.400 N	Fatigue load limit, axial
n <sub>G</sub> Grease	4.000 1/min	Limiting speed for grease lubrication
n <sub>g</sub>	2.700 1/min	Thermally safe operating speed
≈m	0,804 kg	Weight

### Mounting dimensions

D <sub>a</sub>	85,5 mm	Diameter of housing
D <sub>a</sub>	H12	Diameter of housing clearance
d <sub>a</sub>	64,5 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	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