

**FAG****X-life****7309-B-XL-MP-UO**

Angular contact ball bearing

Angular contact ball bearing 73..-B-XL-MP,  
single row, X-life, solid brass cage

## Technical information

**Your current product variant**

Design variant	B	B
Type of Sealing	Without	Not sealed
Cage	MP	Solid brass cage, ball guided
Tolerance class	P6	Class6 (P6), better than PN
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Bearing with matched conditions for fitting in pairs	UO	Bearing set clearance-free in O or X arrangement
Lubricant	Without	Bearing not greased

**Main Dimensions & Performance Data**

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C <sub>r</sub>	69.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	43.000 N	Basic static load rating, radial
C <sub>ur</sub>	3.000 N	Fatigue load limit, radial
n <sub>G</sub>	12.100 1/min	Limiting speed
n <sub>gr</sub>	6.500 1/min	Reference speed
≈m	0,92 kg	Weight



### Mounting dimensions

$d_{a \min}$	54 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	91 mm	Maximum diameter of housing shoulder
$D_{b \max}$	94,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1,5 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	1 mm	Maximum fillet radius of housing

### Dimensions

$r_{\min}$	1,5 mm	Minimum chamfer dimension
$r_{1 \min}$	1 mm	Minimum chamfer dimension
$D_1$	79,8 mm	Shoulder diameter on outer ring wide side face
$d_1$	66,7 mm	Shoulder diameter on inner ring wide side face
$a$	42,9 mm	Distance between the apexes of the pressure cones
$\alpha$	40 °	Contact angle

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	150 °C	Operating temperature max.

### Additional information

$A_{\min}$	0 $\mu\text{m}$	Axial clearance per set min.
Tol (+)	8 $\mu\text{m}$	Tolerance for axial clearance or preload per set

### Characteristics

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