



FAG

**7209-B-XL-TVP-UB**

Angular contact ball bearing

Angular contact ball bearing 72.-B-XL-TVP, single row, X-life, plastic cage

X-life

## Technical information



## Your current product variant

Design variant	B	B
Type of Seal	Without	Not sealed
Cage	TVP	Solid cage made of glass-fiber reinforced polyamid PA66
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	UB	Bearing set with smaller axial internal clearance than UA
Lubricant	Without	Bearing not greased

## Main Dimensions &amp; Performance Data

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
C <sub>r</sub>	40.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	27.000 N	Basic static load rating, radial
C <sub>ur</sub>	1.870 N	Fatigue load limit, radial
n <sub>G</sub>	11.000 1/min	Limiting speed
n <sub>gr</sub>	8.000 1/min	Reference speed
≈m	405 g	Weight



### Mounting dimensions

$d_{a \min}$	52 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	78 mm	Maximum diameter of housing shoulder
$D_{b \max}$	80,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	0,6 mm	Maximum fillet radius of housing

### Dimensions

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
$D_1$	69,78 mm	Shoulder diameter on outer ring wide side face
$d_1$	61,19 mm	Shoulder diameter on inner ring wide side face
$a$	36,8 mm	Distance between the apexes of the pressure cones
$\alpha$	40 °	Contact angle

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

### Additional information

$A_{\min}$	24 $\mu\text{m}$	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