



FAG

**7309-B-XL-TVP** [↗](#)

Angular contact ball bearing

Angular contact ball bearing 73..-B-XL-TVP, single row, X-life, plastic cage

X-life

## Technical information



## Your current product variant

Design variant	B	B
Sealing	Without	Not sealed
Cage	TVP	Solid cage made of glass-fiber reinforced polyamid PA66
Tolerance class	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	Without	Bearing not greased

## Main Dimensions &amp; Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
$C_r$	69,000 N	Basic dynamic load rating, radial
$C_{0r}$	43,000 N	Basic static load rating, radial
$C_{ur}$	3,000 N	Fatigue load limit, radial
$n_G$	9,300 1/min	Limiting speed
$n_{gr}$	6,500 1/min	Reference speed
$\approx m$	0.81 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.
$T_{\max}$	120 °C	Operating temperature max.

### Characteristics

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