

**FAG****7309-B-XL-TVP-UO**

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
Type of Seal	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°
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 _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
≈m	0,815 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
α	40 °	Contact angle

Temperature range

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

Additional information

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

Characteristics

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