



FAG

X-life

7220-B-XL-TVP-P5-UO

Angular contact ball bearing

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

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	P5	Class 5 (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	100 mm	Bore diameter
D	180 mm	Outside diameter
B	34 mm	Width
C _r	142.000 N	Basic dynamic load rating, radial
C _{0r}	124.000 N	Basic static load rating, radial
C _{ur}	7.300 N	Fatigue load limit, radial
n _G	4.850 1/min	Limiting speed
n _{gr}	4.250 1/min	Reference speed
≈m	3,2 kg	Weight



Mounting dimensions

$d_{a\ min}$	112 mm	Minimum diameter of shaft shoulder
$D_{a\ max}$	168 mm	Maximum diameter of housing shoulder
$D_{b\ max}$	173 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2,1 mm	Maximum fillet radius of shaft
$r_{a1\ max}$	1 mm	Maximum fillet radius of housing

Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$r_{1\ min}$	1,1 mm	Minimum chamfer dimension
D_1	149,56 mm	Shoulder diameter on outer ring wide side face
d_1	132,32 mm	Shoulder diameter on inner ring wide side face
a	75,7 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

Tol (+)	10 µm	Tolerance for axial clearance or preload per set
$A_{\min}$	0 mm	Axial clearance per set min.

Characteristics

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