



FAG

7307-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 & Performance Data

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
C _r	45,500 N	Basic dynamic load rating, radial
C _{0r}	27,500 N	Basic static load rating, radial
C _{ur}	1,910 N	Fatigue load limit, radial
n _G	11,900 1/min	Limiting speed
n _{gr}	7,900 1/min	Reference speed
≈m	0.466 kg	Weight



Mounting dimensions

$d_{a \min}$	44 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	71 mm	Maximum diameter of housing shoulder
$D_{b \max}$	74.4 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	63.02 mm	Shoulder diameter on outer ring wide side face
d_1	53.12 mm	Shoulder diameter on inner ring wide side face
a	34.6 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.

Characteristics

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