

**FAG****7307-B-XL-JP-UB**

Angular contact ball bearing

Angular contact ball bearing 73..-B-XL-JP, single row, X-life, steel sheet metal cage

X-life

Technical information

**Your current product variant**

Design variant	B	B
Sealing	Without	Not sealed
Cage	JP	Steel sheet metal
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	UB	Bearing set with smaller axial internal clearance than UA
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
$\approx m$	0,047 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}	150 °C	Operating temperature max.

Additional information

A_{\min}	22 μm	Axial clearance per set min.
Tol (+)	8 μm	Tolerance for axial clearance or preload per set

Characteristics

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