



FAG

7301-B-XL-TVP-P5-UL

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	P5	Class 5 (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Bearing with matched conditions for fitting in pairs	UL	Bearing set with light preload
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	12 mm	Bore diameter
D	37 mm	Outside diameter
B	12 mm	Width
C _r	12.200 N	Basic dynamic load rating, radial
C _{0r}	5.300 N	Basic static load rating, radial
C _{ur}	365 N	Fatigue load limit, radial
n _G	28.000 1/min	Limiting speed
n _{gr}	16.300 1/min	Reference speed
≈m	0,06 kg	Weight



Mounting dimensions

$d_{a \min}$	17,6 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	31,4 mm	Maximum diameter of housing shoulder
$D_{b \max}$	32,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	0,6 mm	Maximum fillet radius of housing

Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
D_1	27,23 mm	Shoulder diameter on outer ring wide side face
d_1	22,29 mm	Shoulder diameter on inner ring wide side face
a	16,3 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

V_{\max}	-4 μm	Preload per set max.
Tol (+)	6 μm	Tolerance for axial clearance or preload per set
$F_{V \max}$	82 N	Preload force



Characteristics

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