



FAG

7007-B-XL-TVP-UO

Angular contact ball bearing

Angular contact ball bearing 70.-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	PN	Normal (PN)
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	35 mm	Bore diameter
D	62 mm	Outside diameter
B	14 mm	Width
C _r	24.300 N	Basic dynamic load rating, radial
C _{0r}	17.200 N	Basic static load rating, radial
C _{ur}	1.200 N	Fatigue load limit, radial
n _G	14.700 1/min	Limiting speed
n _{gr}	9.000 1/min	Reference speed
≈m	0,141 kg	Weight



Mounting dimensions

$d_{a \min}$	39,6 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	57,4 mm	Maximum diameter of housing shoulder
$D_{b \max}$	58,8 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	53,36 mm	Shoulder diameter on outer ring wide side face
d_1	47,02 mm	Shoulder diameter on inner ring wide side face
a	27,9 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 μm	Axial clearance per set min.
Tol (+)	8 μm	Tolerance for axial clearance or preload per set

Characteristics

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