



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 (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 &amp; Performance Data

d	35 mm	Bore diameter
D	62 mm	Outside diameter
B	14 mm	Width
C <sub>r</sub>	24.300 N	Basic dynamic load rating, radial
C <sub>0r</sub>	17.200 N	Basic static load rating, radial
C <sub>ur</sub>	1.200 N	Fatigue load limit, radial
n <sub>G</sub>	14.700 1/min	Limiting speed
n <sub>gr</sub>	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
$\alpha$	40 °	Contact angle

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

### Additional information

$A_{\min}$	0 $\mu\text{m}$	Axial clearance per set min.
Tol (+)	8 $\mu\text{m}$	Tolerance for axial clearance or preload per set

### Characteristics

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