



FAG

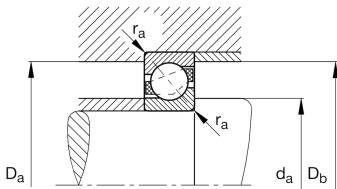
**7005-B-XL-TVP** [↗](#)

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
Sealing	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°
Lubricant	Without	Bearing not greased

## Main Dimensions &amp; Performance Data

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
C <sub>r</sub>	16.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	9.900 N	Basic static load rating, radial
C <sub>ur</sub>	690 N	Fatigue load limit, radial
n <sub>G</sub>	19.900 1/min	Limiting speed
n <sub>gr</sub>	12.000 1/min	Reference speed
≈m	0,072 kg	Weight



### Mounting dimensions

$d_{a \min}$	28,2 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	43,8 mm	Maximum diameter of housing shoulder
$D_{b \max}$	45 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,6 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	0,3 mm	Maximum fillet radius of housing






### Dimensions

$r_{\min}$	0,6 mm	Minimum chamfer dimension
$r_{1 \min}$	0,3 mm	Minimum chamfer dimension
$D_1$	39,83 mm	Shoulder diameter on outer ring wide side face
$D_2$	40,5 mm	Caliber diameter on outer ring wide side face
$D_3$	44,81 mm	Caliber diameter on outer ring small side face
$d_1$	33,94 mm	Shoulder diameter on inner ring wide side face
$d_2$	31,52 mm	Caliber diameter on inner ring wide side face
$a$	21,5 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.

### Characteristics

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