

**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 & Performance Data

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
C _r	16,000 N	Basic dynamic load rating, radial
C _{0r}	9,900 N	Basic static load rating, radial
C _{ur}	690 N	Fatigue load limit, radial
n _G	19,900 1/min	Limiting speed
n _{gr}	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
α	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