





FAG

7005-B-XL-TVP-P5-UA 

Angular contact ball bearing

Angular contact ball bearing 70..-B-XL-TVP,
single row, X-life, plastic cage

X-life

Informacje techniczne



Twoja aktualna wersja produktu

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	UA	Bearing set with small axial internal clearance
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	Masa



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.

Additional information

Tol (+)	6 μm	Tolerance for axial clearance or preload per set
A min	34 μm	Axial clearance per set min.



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia