



FAG

7004-B-XL-TVP-UL

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°
Bearing with matched conditions for fitting in pairs	UL	Bearing set with light preload
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	20 mm	Bore diameter
D	42 mm	Outside diameter
B	12 mm	Width
C _r	14.500 N	Basic dynamic load rating, radial
C _{0r}	8.000 N	Basic static load rating, radial
C _{ur}	560 N	Fatigue load limit, radial
n _G	22.600 1/min	Limiting speed
n _{gr}	14.400 1/min	Reference speed
≈m	60 g	Weight



Mounting dimensions

$d_{a \min}$	23,2 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	38,8 mm	Maximum diameter of housing shoulder
$D_{b \max}$	40 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	34,82 mm	Shoulder diameter on outer ring wide side face
D_2	35,5 mm	Caliber diameter on outer ring wide side face
D_3	39,8 mm	Caliber diameter on outer ring small side face
d_1	28,94 mm	Shoulder diameter on inner ring wide side face
d_2	26,52 mm	Caliber diameter on inner ring wide side face
a	19,4 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

V_{\max}	-4 μm	Preload per set max.
Tol (+)	8 μm	Tolerance for axial clearance or preload per set
$F_{V \max}$	103 N	Preload force



Characteristics

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