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26.12.2024, 06:30:18 UTC

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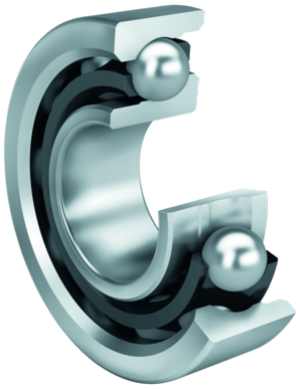


FAG

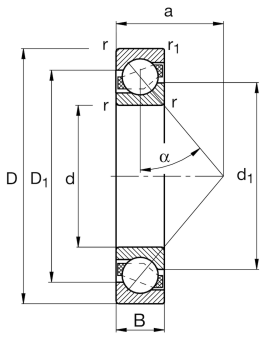
X-life

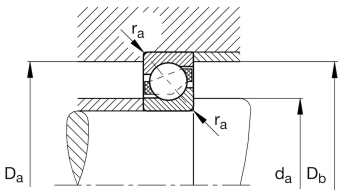
7314-B-XL-TVP-UA

Angular contact ball bearing

Angular contact ball bearing 73..-B-XL-TVP,
single row, X-life, plastic cage

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 (PN)
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	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width
C_r	126,000 N	Basic dynamic load rating, radial
C_{0r}	93,000 N	Basic static load rating, radial
C_{ur}	6,200 N	Fatigue load limit, radial
n_G	6,000 1/min	Limiting speed
$n_{\vartheta r}$	4,750 1/min	Reference speed
≈m	2.565 kg	Weight

Mounting dimensions

$d_{a\ min}$	82 mm	Minimum diameter of shaft shoulder
$D_{a\ max}$	138 mm	Maximum diameter of housing shoulder
$D_{b\ max}$	143 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2.1 mm	Maximum fillet radius of shaft
$r_{a1\ max}$	1 mm	Maximum fillet radius of housing

Dimensions

r_{min}	2.1 mm	Minimum chamfer dimension
$r_{1\ min}$	1.1 mm	Minimum chamfer dimension
D_1	119.62 mm	Shoulder diameter on outer ring wide side face
d_1	102.26 mm	Shoulder diameter on inner ring wide side face
a	63.7 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

A_{min}	50 µm	Axial clearance per set min.
$Tol_{(+)}$	12 µm	Tolerance for axial clearance or preload per set

Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Oil Lubrication


Not sealed