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SCHAEFFLER

FAG



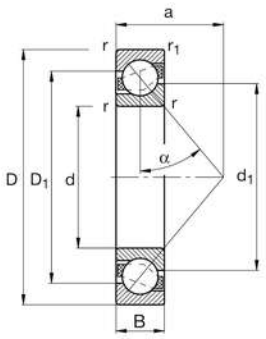
7316-B-XL-MP-UA

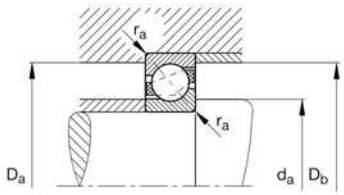
Angular contact ball bearing

Angular contact ball bearing 73..-B-XL-MP,
single row, X-life, solid brass cage

X-life

Technical information





Your current product variant

Design variant	B	B
Sealing	Without	Not sealed
Cage	MP	solid brass cage, ball guided
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	80 mm	Bore diameter
D	170 mm	Outside diameter
B	39 mm	Width
C_r	155,000 N	Basic dynamic load rating, radial
C_{0r}	124,000 N	Basic static load rating, radial
C_{ur}	7,700 N	Fatigue load limit, radial
n_G	6,800 1/min	Limiting speed
$n_{\vartheta r}$	4,250 1/min	Reference speed
≈m	4.095 kg	Weight

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product.For further information you can use the contact form on our website

Mounting dimensions

$d_{a\ min}$	92 mm	Minimum diameter of shaft shoulder
$D_{a\ max}$	158 mm	Maximum diameter of housing shoulder
$D_{b\ max}$	163 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	136.7 mm	Shoulder diameter on outer ring wide side face
d_1	115.7 mm	Shoulder diameter on inner ring wide side face
a	71.9 mm	Distance between the apexes of the pressure cones
α	40 °	Contact angle

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	150 °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

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