

**FAG****X-life****7414-B-XL-MP-UO**

Angular contact ball bearing

Angular contact ball bearing 74..-B-XL-MP,
single row, X-life, solid brass cage

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 (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Bearing with matched conditions for fitting in pairs	UO	Bearing set clearance-free in O or X arrangement
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	180 mm	Outside diameter
B	42 mm	Width
C _r	167,000 N	Basic dynamic load rating, radial
C _{0r}	138,000 N	Basic static load rating, radial
C _{ur}	8,300 N	Fatigue load limit, radial
n _G	6,400 1/min	Limiting speed
n _{gr}	3,450 1/min	Reference speed
≈m	5.49 kg	Weight



Mounting dimensions

$d_{a \min}$	86 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	164 mm	Maximum diameter of housing shoulder
$D_{b \max}$	171 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2.5 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	1 mm	Maximum fillet radius of housing

Dimensions

r_{\min}	3 mm	Minimum chamfer dimension
$r_{1 \min}$	1.1 mm	Minimum chamfer dimension
D_1	144.34 mm	Shoulder diameter on outer ring wide side face
d_1	123.1 mm	Shoulder diameter on inner ring wide side face
a	76.6 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}	0 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