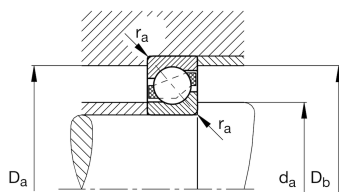
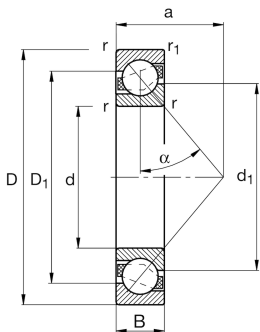


**FAG****X-life****7416-B-XL-MP-UA**

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 (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 &amp; Performance Data

d	80 mm	Bore diameter
D	200 mm	Outside diameter
B	48 mm	Width
C <sub>r</sub>	200,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	169,000 N	Basic static load rating, radial
C <sub>ur</sub>	9,900 N	Fatigue load limit, radial
n <sub>G</sub>	5,800 1/min	Limiting speed
n <sub>gr</sub>	3,600 1/min	Reference speed
m	7.781 kg	Weight



Mounting dimensions

$d_{a\ min}$	96 mm	Minimum diameter of shaft shoulder
$D_{a\ max}$	184 mm	Maximum diameter of housing shoulder
$D_{b\ max}$	191 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
$D_1$	153.94 mm	Shoulder diameter on outer ring wide side face
$d_1$	129 mm	Shoulder diameter on inner ring wide side face
$a$	82.7 mm	Distance between the apexes of the pressure cones
$\alpha$	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

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