

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

Angular contact ball bearing

Angular contact ball bearing 74..-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 (ISO 492:2023)
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 $\mu\text{m}$	Axial clearance per set min.
Tol (+)	12 $\mu\text{m}$	Tolerance for axial clearance or preload per set

### Characteristics

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