

**FAG****X-life****7415-B-XL-MP-UM**

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	UM	Bearing set with moderate preload
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	75 mm	Bore diameter
D	190 mm	Outside diameter
B	45 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}	3.750 1/min	Reference speed
≈m	6,595 kg	Weight



Mounting dimensions

$d_{a \min}$	91 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	174 mm	Maximum diameter of housing shoulder
$D_{b \max}$	181 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	78,1 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

V_{\max}	-26 μm	Preload per set max.
Tol (+)	12 μm	Tolerance for axial clearance or preload per set
$F_{V \max}$	3.462 N	Preload force



Characteristics

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