

**FAG****7024-XL-MP**

Angular contact ball bearing

Angular contact ball bearing 70.-XL-MP,  
single row, X-life, solid brass cage**X-life**

## Technical information



## Your current product variant

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°
Lubricant	Without	Bearing not greased

## Main Dimensions &amp; Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	28 mm	Width
C <sub>r</sub>	107.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	117.000 N	Basic static load rating, radial
C <sub>ur</sub>	6.600 N	Fatigue load limit, radial
n <sub>G</sub>	6.100 1/min	Limiting speed
n <sub>gr</sub>	3.500 1/min	Reference speed
m	2,366 kg	Weight



### Mounting dimensions

$d_{a \min}$	128,8 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	171,2 mm	Maximum diameter of housing shoulder
$D_{b \max}$	175,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	1 mm	Maximum fillet radius of housing

### Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
$r_{1 \min}$	1 mm	Minimum chamfer dimension
$D_1$	156 mm	Shoulder diameter on outer ring wide side face
$d_1$	143,8 mm	Shoulder diameter on inner ring wide side face
$a$	57,3 mm	Distance between the apexes of the pressure cones
$\alpha$	30 °	Contact angle

### Temperature range

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

### Characteristics

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