

**FAG****HC7224-B-XL-MP-UB**

Angular contact ball bearing

Angular contact ball bearing HC72...-B-MP,  
Hybrid bearing, single row, solid brass cage**X-life**

## Technical information



## Your current product variant

Material combination	HC	Hybrid bearing, rolling elements ceramic, bearing rings made of steel
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	UB	Bearing set with smaller axial internal clearance than UA
Lubricant	Without	Bearing not greased

## Main Dimensions &amp; Performance Data

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	40 mm	Width
$C_r$	182.000 N	Basic dynamic load rating, radial
$C_{0r}$	171.000 N	Basic static load rating, radial
$C_{ur}$	7.000 N	Fatigue load limit, radial
$n_G$	6.300 1/min	Limiting speed
$n_{gr}$	3.750 1/min	Reference speed
$m$	6,09 kg	Weight



### Mounting dimensions

$d_{a \min}$	132 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	203 mm	Maximum diameter of housing shoulder
$D_{b \max}$	208 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	1 mm	Maximum fillet radius of housing

### Dimensions

$r_{\min}$	2,1 mm	Minimum chamfer dimension
$r_{1 \min}$	1,1 mm	Minimum chamfer dimension
$D_1$	178,9 mm	Shoulder diameter on outer ring wide side face
$d_1$	157,2 mm	Shoulder diameter on inner ring wide side face
$a$	90,3 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

$A_{\min}$	34 $\mu\text{m}$	Axial clearance per set min.
Tol (+)	12 $\mu\text{m}$	Tolerance for axial clearance or preload per set



### Characteristics

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