

**FAG****7240-B-MP-UA**

Angular contact ball bearing

Angular contact ball bearing 72..-B-MP, single row, 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	S1	Rings dimensional stabilized up to 200°
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	200 mm	Bore diameter
D	360 mm	Outside diameter
B	58 mm	Width
C <sub>r</sub>	325.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	480.000 N	Basic static load rating, radial
C <sub>ur</sub>	14.900 N	Fatigue load limit, radial
n <sub>G</sub>	2.750 1/min	Limiting speed
n <sub>gr</sub>	1.990 1/min	Reference speed
≈m	25,939 kg	Weight



### Mounting dimensions

$d_{a \min}$	217 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	343 mm	Maximum diameter of housing shoulder
$D_{b \max}$	351 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	1,5 mm	Maximum fillet radius of housing

### Dimensions

$r_{\min}$	4 mm	Minimum chamfer dimension
$r_{1 \min}$	1,5 mm	Minimum chamfer dimension
$D_1$	297,65 mm	Shoulder diameter on outer ring wide side face
$d_1$	265,95 mm	Shoulder diameter on inner ring wide side face
$a$	146,5 mm	Distance between the apexes of the pressure cones
$\alpha$	40 °	Contact angle

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.

### Additional information

$A_{\min}$	90 $\mu\text{m}$	Axial clearance per set min.
Tol (+)	16 $\mu\text{m}$	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
-  Large bearing