

**FAG****7036-XL-MP-UA**

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

Type of seal	Without	Not sealed
Cage	MP	Solid brass cage, ball guided
Tolerance class	PN	Normal (PN)
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	180 mm	Bore diameter
D	280 mm	Outside diameter
B	46 mm	Width
$C_r$	240.000 N	Basic dynamic load rating, radial
$C_{Or}$	295.000 N	Basic static load rating, radial
$C_{ur}$	13.400 N	Fatigue load limit, radial
$n_G$	3.800 1/min	Limiting speed
$n_{gr}$	2.550 1/min	Reference speed
$m$	9,74 kg	Weight



### Mounting dimensions

$d_{a \min}$	190,2 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	269,8 mm	Maximum diameter of housing shoulder
$D_{b \max}$	274 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
$D_1$	244,15 mm	Shoulder diameter on outer ring wide side face
$d_1$	218 mm	Shoulder diameter on inner ring wide side face
$a$	89,4 mm	Distance between the apexes of the pressure cones
$\alpha$	30 °	Contact angle

### Temperature range

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

### Additional information

$A_{\min}$	76 $\mu\text{m}$	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