

**FAG****X-life****7305-B-XL-MP-UA**

Angular contact ball bearing

Angular contact ball bearing 73..-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	P6	Class 6 (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Bearing with matched conditions for fitting in pairs	UA	Bearing set with small axial internal clearance
Lubricant	Without	Bearing not greased

**Main Dimensions & Performance Data**

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
C <sub>r</sub>	28,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	14,200 N	Basic static load rating, radial
C <sub>ur</sub>	990 N	Fatigue load limit, radial
n <sub>G</sub>	20,500 1/min	Limiting speed
n <sub>gr</sub>	9,900 1/min	Reference speed
≈m	0.25 kg	Weight



### Mounting dimensions

$d_{a \min}$	32 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	55 mm	Maximum diameter of housing shoulder
$D_{b \max}$	57.8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	0.6 mm	Maximum fillet radius of housing

### Dimensions

$r_{\min}$	1.1 mm	Minimum chamfer dimension
$r_{1 \min}$	0.6 mm	Minimum chamfer dimension
$D_1$	48 mm	Shoulder diameter on outer ring wide side face
$d_1$	39.9 mm	Shoulder diameter on inner ring wide side face
$a$	26.8 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 (+)	8 $\mu\text{m}$	Tolerance for axial clearance or preload per set

### Characteristics

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