



FAG

**QJ309-XL-MPA-C3**

Four-point contact bearing

Four point contact bearing QJ3..-XL-MPA, X-life, solid brass cage

X-life

## Technical information



## Your current product variant

Tolerance class	PN	Normal (ISO 492:2023)
Cage	MPA	Solid brass cage, outer ring guided
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Axial internal clearance	C3	Group 3 (C3), bigger than CN

## Main Dimensions &amp; Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
$C_r$	100,000 N	Basic dynamic load rating, radial
$C_{0r}$	75,000 N	Basic static load rating, radial
$C_{ur}$	5,700 N	Fatigue load limit, radial
$n_G$	13,700 1/min	Limiting speed
$n_{gr}$	5,900 1/min	Reference speed
$m$	1 kg	Weight

## Mounting dimensions

$d_{a \min}$	54 mm	Minimum diameter shaft shoulder
$D_{a \max}$	91 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1.5 mm	Maximum fillet radius



### Dimensions

$r_{\min}$	1.5 mm	Minimum chamfer dimension
$D_1$	81.65 mm	Shoulder diameter outer ring
$d_1$	63.35 mm	Shoulder diameter inner ring
$a$	50.8 mm	Distance between the apexes of the pressure cones
$\alpha$	35 °	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
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed