



FAG

**QJ309-XL-MPA**

Four-point contact bearing

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

X-life

## Technical information



## Your current product variant

Cage	MPA	Solid brass cage, outer ring guided
Tolerance class	PN	Tolerance class PN, acc. to DIN 620
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Axial internal clearance	CN	Group N (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
$\approx m$	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