



FAG

**QJ209-XL-MPA**

Four-point contact bearing

Four point contact bearing QJ2..-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	CN	Group N (CN)

## Main Dimensions &amp; Performance Data

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
C <sub>r</sub>	63,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	53,000 N	Basic static load rating, radial
C <sub>ur</sub>	3,700 N	Fatigue load limit, radial
n <sub>G</sub>	16,200 1/min	Limiting speed
n <sub>gr</sub>	7,000 1/min	Reference speed
≈m	0.5 kg	Weight

## Mounting dimensions

d <sub>a min</sub>	52 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	78 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	1 mm	Maximum fillet radius



### Dimensions

$r_{\min}$	1.1 mm	Minimum chamfer dimension
$D_1$	72 mm	Shoulder diameter outer ring
$d_1$	58.5 mm	Shoulder diameter inner ring
$a$	45.5 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