



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

|                                  |     |                                         |
|----------------------------------|-----|-----------------------------------------|
| 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               | 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