



FAG

**QJ1016-XL-MPA**

Four-point contact bearing

Four point contact ball bearing QJ10...-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           | 80 mm        | Bore diameter                     |
| D           | 125 mm       | Outside diameter                  |
| B           | 22 mm        | Width                             |
| $C_r$       | 85.000 N     | Basic dynamic load rating, radial |
| $C_{0r}$    | 91.000 N     | Basic static load rating, radial  |
| $C_{ur}$    | 6.300 N      | Fatigue load limit, radial        |
| $n_G$       | 10.600 1/min | Limiting speed                    |
| $n_{gr}$    | 4.500 1/min  | Reference speed                   |
| $\approx m$ | 1,07 kg      | Weight                            |

## Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 86 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 119 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm   | Maximum fillet radius                |



### Dimensions

|           |          |   |
|-----------|----------|---|
| $r_{min}$ | 1,1 mm   | Minimum chamfer dimension                         |
| $D_1$     | 109,8 mm | Shoulder diameter outer ring                      |
| $d_1$     | 95,8 mm  | Shoulder diameter inner ring                      |
| $a$       | 71,8 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