



FAG

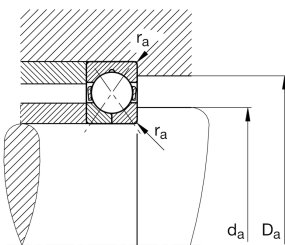
**QJ209-XL-TVP-C3**

Four-point contact bearing

Four point contact bearing QJ2..-XL-TVP, X-life, plastic cage

X-life

## Technical information



## Your current product variant

|                                  |     |   |
|----------------------------------|-----|---|
| Cage                             | TVP | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Tolerance class                  | PN  | Tolerance class PN, acc. to DIN 620                     |
| 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           | 85 mm        | Outside diameter                  |
| B           | 19 mm        | Width                             |
| $C_r$       | 66.000 N     | Basic dynamic load rating, radial |
| $C_{0r}$    | 57.000 N     | Basic static load rating, radial  |
| $C_{ur}$    | 4.000 N      | Fatigue load limit, radial        |
| $n_G$       | 10.800 1/min | Limiting speed                    |
| $n_{gr}$    | 6.900 1/min  | Reference speed                   |
| $\approx m$ | 443 g        | Weight                            |

## Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 52 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 78 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm  | Maximum fillet radius                |



### Dimensions

|            |         |   |
|------------|---------|---|
| $r_{\min}$ | 1,1 mm  | Minimum chamfer dimension                         |
| $D_1$      | 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. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed