



FAG

QJ209-XL-MPA-C2

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 | C2 | Group 2 (C2), smaller than CN |

Main Dimensions & Performance Data

| | | |
|-------------|--------------|-----------------------------------|
| d | 45 mm | Bore diameter |
| D | 85 mm | Outside diameter |
| B | 19 mm | Width |
| C_r | 63.000 N | Basic dynamic load rating, radial |
| C_{0r} | 53.000 N | Basic static load rating, radial |
| C_{ur} | 3.700 N | Fatigue load limit, radial |
| n_G | 16.200 1/min | Limiting speed |
| n_{gr} | 7.000 1/min | Reference speed |
| $\approx m$ | 0,5 kg | 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 |
| α | 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