



FAG

QJ209-XL-MPA-C3

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 | C3 | Group 3 (C3), bigger 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 |
| 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