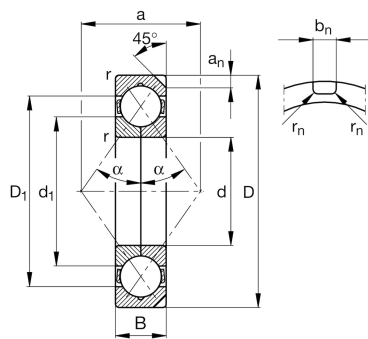


**FAG****QJ311-XL-N2-MPA**

Four-point contact bearing

Four point contact bearing QJ3..-XL-N2-MPA,
X-life, holding grooves, solid brass cage**X-life**

Technical information



Your current product variant

| | | |
|----------------------------------|-----|---|
| Design, bearing outer ring | N2 | Two retaining grooves in the outer ring on one side |
| 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 & Performance Data

| | | |
|-------------|--------------|-----------------------------------|
| d | 55 mm | Bore diameter |
| D | 120 mm | Outside diameter |
| B | 29 mm | Width |
| C_r | 133.000 N | Basic dynamic load rating, radial |
| C_{0r} | 108.000 N | Basic static load rating, radial |
| C_{ur} | 8.100 N | Fatigue load limit, radial |
| n_G | 11.400 1/min | Limiting speed |
| n_{gr} | 5.000 1/min | Reference speed |
| $\approx m$ | 1,668 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 66 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 109 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|---------|---|
| r_{\min} | 2 mm | Minimum chamfer dimension |
| D_1 | 97,8 mm | Shoulder diameter outer ring |
| d_1 | 77,2 mm | Shoulder diameter inner ring |
| a | 61,3 mm | Distance between the apexes of the pressure cones |
| a_n | 8,1 mm | Height retaining slot |
| b_n | 6,5 mm | Width retaining slot |
| r_n | 1 mm | Radius retaining slot |
| | 45 ° | Angle retaining slot |
| 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 |