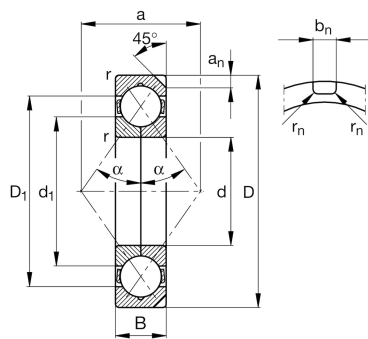


**FAG****QJ314-XL-N2-MPA**

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 |
| 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 | CN | Group N (CN) |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 70 mm | Bore diameter |
| D | 150 mm | Outside diameter |
| B | 35 mm | Width |
| C _r | 198.000 N | Basic dynamic load rating, radial |
| C _{0r} | 165.000 N | Basic static load rating, radial |
| C _{ur} | 11.800 N | Fatigue load limit, radial |
| n _G | 8.900 1/min | Limiting speed |
| n _{gr} | 4.200 1/min | Reference speed |
| ≈m | 3,134 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 82 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 138 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm | Maximum fillet radius |







Dimensions

| | | |
|------------|----------|---|
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| D_1 | 123,6 mm | Shoulder diameter outer ring |
| d_1 | 97,7 mm | Shoulder diameter inner ring |
| a | 77 mm | Distance between the apexes of the pressure cones |
| a_n | 10,1 mm | Height retaining slot |
| b_n | 8,5 mm | Width retaining slot |
| r_n | 2 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