

**FAG****QJ222-N2-MPA**

Four-point contact bearing

Four point contact bearing QJ2..-N2-MPA,
holding grooves, solid brass cage

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 | 110 mm | Bore diameter |
| D | 200 mm | Outside diameter |
| B | 38 mm | Width |
| C _r | 249.000 N | Basic dynamic load rating, radial |
| C _{0r} | 285.000 N | Basic static load rating, radial |
| C _{ur} | 12.700 N | Fatigue load limit, radial |
| n _G | 5.900 1/min | Limiting speed |
| n _{gr} | 3.350 1/min | Reference speed |
| ≈m | 5,579 kg | Weight |

Mounting dimensions

| | | |
|--------------------|--------|--------------------------------------|
| d _{a min} | 122 mm | Minimum diameter shaft shoulder |
| D _{a max} | 188 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 | 169,8 mm | Shoulder diameter outer ring |
| d_1 | 141,74 mm | Shoulder diameter inner ring |
| a | 108,5 mm | Distance between the apexes of the pressure cones |
| a_n | 10,1 mm | Hight 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