

**FAG****QJ317-N2-MPA**

Four-point contact bearing

Four point contact bearing QJ3..-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 &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 85 mm       | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 41 mm       | Width                             |
| C <sub>r</sub>  | 248.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 255.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 12.800 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.600 1/min | Limiting speed                    |
| n <sub>gr</sub> | 3.550 1/min | Reference speed                   |
| ≈m              | 5,362 kg    | Weight                            |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 99 mm  | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 166 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2,5 mm | Maximum fillet radius                |



## Dimensions

|            |           |   |
|------------|-----------|---|
| $r_{\min}$ | 3 mm      | Minimum chamfer dimension                         |
| $D_1$      | 148,7 mm  | Shoulder diameter outer ring                      |
| $d_1$      | 117,94 mm | Shoulder diameter inner ring                      |
| $a$        | 92,8 mm   | Distance between the apexes of the pressure cones |
| $a_n$      | 11,7 mm   | Hight retaining slot                              |
| $b_n$      | 10,5 mm   | Width retaining slot                              |
| $r_n$      | 2 mm      | Radius retaining slot                             |
|            | 45 °      | Angle retaining slot                              |
| $\alpha$   | 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                   |