

**FAG****QJ216-XL-N2-MPA**

Four-point contact bearing

Four point contact bearing QJ2..-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 &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 80 mm       | Bore diameter                     |
| D               | 140 mm      | Outside diameter                  |
| B               | 26 mm       | Width                             |
| C <sub>r</sub>  | 136.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 137.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 9.700 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.400 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.250 1/min | Reference speed                   |
| ≈m              | 1,728 kg    | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 91 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 129 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm   | Maximum fillet radius                |

### Dimensions

|            |           |   |
|------------|-----------|---|
| $r_{\min}$ | 2 mm      | Minimum chamfer dimension                         |
| $D_1$      | 119,55 mm | Shoulder diameter outer ring                      |
| $d_1$      | 100,86 mm | Shoulder diameter inner ring                      |
| $a$        | 77 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                              |
| $\alpha$   | 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                   |