



FAG

QJ309-XL-TVP

Four-point contact bearing

Four point contact bearing QJ3...-XL-TVP, X-life, plastic cage

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |     |                                                         |
|----------------------------------|-----|---------------------------------------------------------|
| Tolerance class                  | PN  | Normal (ISO 492:2023)                                   |
| Cage                             | TVP | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Dimensional / heat stabilization | S0  | Rings dimensional stabilized up to 150°                 |
| Axial internal clearance         | CN  | Group N (CN)                                            |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 45 mm       | Bore diameter                     |
| D               | 100 mm      | Outside diameter                  |
| B               | 25 mm       | Width                             |
| C <sub>r</sub>  | 107.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 83.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 6.200 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.100 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.700 1/min | Reference speed                   |

Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 54 mm  | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 91 mm  | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 1,5 mm | Maximum fillet radius                |



### Dimensions

|            |          |                                                   |
|------------|----------|---------------------------------------------------|
| $r_{\min}$ | 1,5 mm   | Minimum chamfer dimension                         |
| $D_1$      | 81,65 mm | Shoulder diameter outer ring                      |
| $d_1$      | 63,35 mm | Shoulder diameter inner ring                      |
| $a$        | 50,8 mm  | Distance between the apexes of the pressure cones |
| $\alpha$   | 35 °     | Contact angle                                     |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia