

**FAG****NJ209-E-XL-TVP2-C4**

Cylindrical roller bearing

Cylindrical roller bearing NJ..-E-XL-TVP2, with cage, single row, semi-locating bearing, 2 ribs on outer ring, 1 rib on inner ring, type NJ

## Technical information

**Your current product variant**

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | E            | Increased Capacity Design         |
| Cage                      | TVP2         | Solid Window Cage made from PA66  |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Tolerance class           | PN           | Normal (ISO 492:2023)             |
| Number of rows            | 1            | Single-row design                 |

**Main Dimensions & Performance Data**

|          |              |                                   |
|----------|--------------|-----------------------------------|
| d        | 45 mm        | Bore diameter                     |
| D        | 85 mm        | Outside diameter                  |
| B        | 19 mm        | Width                             |
| $C_r$    | 72.000 N     | Basic dynamic load rating, radial |
| $C_{0r}$ | 63.000 N     | Basic static load rating, radial  |
| $C_{ur}$ | 10.500 N     | Fatigue load limit, radial        |
| $n_G$    | 10.200 1/min | Limiting speed                    |
| $n_{gr}$ | 7.000 1/min  | Reference speed                   |
| $m$      | 0,432 kg     | Weight                            |



### Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 52 mm | Minimum diameter shaft shoulder      |
| $d_{a \max}$ | 54 mm | Maximum diameter of shaft shoulder   |
| $D_{a \max}$ | 78 mm | Maximum diameter of housing shoulder |
| $d_{c \min}$ | 61 mm | Minimum shaft shoulder               |
| $r_{a \max}$ | 1 mm  | Maximum recess radius                |

### Dimensions

|            |         |                                 |
|------------|---------|---------------------------------|
| $r_{\min}$ | 1,1 mm  | Minimum chamfer dimension       |
| $r_1 \min$ | 1,1 mm  | Minimum chamfer dimension       |
| s          | 1,9 mm  | Axial displacement              |
| E          | 76,5 mm | Raceway diameter outer ring     |
| F          | 54,5 mm | Raceway diameter inner ring     |
| $D_1 \min$ | 73,3 mm | Minimum rib diameter outer ring |
| $d_1$      | 59 mm   | Maximum rib diameter inner ring |

### Temperature range

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

### Additional information

HJ209-E

L-washer

### Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed