



FAG

**NJ304-E-XL-M1**

Cylindrical roller bearing

Cylindrical roller bearing NJ..-E-XL-M1, with cage, single row, semi-locating bearing, 2 ribs on outer ring, 1 rib on inner ring, type NJ

X-life

## Technical information



## Your current product variant

|                           |              |                                    |
|---------------------------|--------------|------------------------------------|
| Design                    | E            | Increased Capacity Design          |
| Cage                      | M1           | Two Piece Brass Cage Roller Guided |
| Radial internal clearance | CN (Group N) | Normal internal clearance          |
| Tolerance class           | PN           | Normal (ISO 492:2023)              |
| Number of rows            | 1            | Single-row design                  |

## Main Dimensions &amp; Performance Data

|          |              |                                   |
|----------|--------------|-----------------------------------|
| d        | 20 mm        | Bore diameter                     |
| D        | 52 mm        | Outside diameter                  |
| B        | 15 mm        | Width                             |
| $C_r$    | 37.500 N     | Basic dynamic load rating, radial |
| $C_{0r}$ | 27.000 N     | Basic static load rating, radial  |
| $C_{ur}$ | 3.950 N      | Fatigue load limit, radial        |
| $n_G$    | 25.500 1/min | Limiting speed                    |
| $n_{gr}$ | 11.900 1/min | Reference speed                   |
| $m$      | 0,17 kg      | Weight                            |



### Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 24 mm | Minimum diameter shaft shoulder      |
| $d_{a \max}$ | 27 mm | Maximum diameter of shaft shoulder   |
| $D_{a \max}$ | 45 mm | Maximum diameter of housing shoulder |
| $d_{c \min}$ | 33 mm | Minimum shaft shoulder               |
| $r_{a \max}$ | 1 mm  | Maximum recess radius                |

### Dimensions

|              |          |                                 |
|--------------|----------|---------------------------------|
| $r_{\min}$   | 1,1 mm   | Minimum chamfer dimension       |
| $r_{1 \min}$ | 0,6 mm   | Minimum chamfer dimension       |
| s            | 1 mm     | Axial displacement              |
| E            | 45,5 mm  | Raceway diameter outer ring     |
| F            | 27,5 mm  | Raceway diameter inner ring     |
| $D_{1 \min}$ | 42,35 mm | Minimum rib diameter outer ring |
| $d_1$        | 31,25 mm | Maximum rib diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 150 °C | Operating temperature max. |

### Additional information

HJ304-E

L-washer

### Characteristics

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