



FAG

**NJ2220-E-XL-TVP2**

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

X-life

## Technical information



## Your current product variant

|                           |              |                                  |
|---------------------------|--------------|----------------------------------|
| Design                    | E            | Increased Capacity Design        |
| Cage                      | TVP2         | Solid Window Cage made from PA66 |
| 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               | 100 mm      | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 46 mm       | Width                             |
| C <sub>r</sub>  | 395,000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 445,000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 77,000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5,300 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2,900 1/min | Reference speed                   |
| m               | 4.77 kg     | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 112 mm | Minimum diameter shaft shoulder      |
| $d_{a \max}$ | 117 mm | Maximum diameter of shaft shoulder   |
| $D_{a \max}$ | 168 mm | Maximum diameter of housing shoulder |
| $d_{c \min}$ | 130 mm | Minimum shaft shoulder               |
| $r_{a \max}$ | 2.1 mm | Maximum recess radius                |

### Dimensions

|              |          |                                 |
|--------------|----------|---------------------------------|
| $r_{\min}$   | 2.1 mm   | Minimum chamfer dimension       |
| $r_{1 \min}$ | 2.1 mm   | Minimum chamfer dimension       |
| s            | 3 mm     | Axial displacement              |
| E            | 163 mm   | Raceway diameter outer ring     |
| F            | 119 mm   | Raceway diameter inner ring     |
| $D_{1 \min}$ | 156.9 mm | Minimum rib diameter outer ring |
| $d_1$        | 127.3 mm | Maximum rib diameter inner ring |

### Temperature range

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

### Additional information

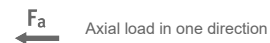
HJ2220-E

L-washer

### Characteristics



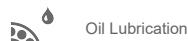
Radial load



Axial load in one direction



Grease Lubrication



Oil Lubrication



Not sealed