



FAG

**NU305-E-XL-TVP2-C3**

Cylindrical roller bearing

Cylindrical roller bearing NU..-E-XL-TVP2, with cage, single row, non-locating bearing, 2 ribs on outer ring, 0 ribs on inner ring (smooth), type NU, Running accuracy in P6

X-life

## Technical information



## Your current product variant

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | E            | Increased Capacity Design         |
| Cage                      | TVP2         | Solid Window Cage made from PA66  |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Tolerance class           | PN           | Normal (ISO 492:2023)             |
| Number of rows            | 1            | Single-row design                 |

## Main Dimensions &amp; Performance Data

|          |              |                                   |
|----------|--------------|-----------------------------------|
| d        | 25 mm        | Bore diameter                     |
| D        | 62 mm        | Outside diameter                  |
| B        | 17 mm        | Width                             |
| $C_r$    | 49.000 N     | Basic dynamic load rating, radial |
| $C_{0r}$ | 37.500 N     | Basic static load rating, radial  |
| $C_{ur}$ | 4.550 N      | Fatigue load limit, radial        |
| $n_G$    | 14.400 1/min | Limiting speed                    |
| $n_{gr}$ | 10.100 1/min | Reference speed                   |
| $m$      | 0,234 kg     | Weight                            |



### Mounting dimensions

|               |       |                                      |
|---------------|-------|--------------------------------------|
| $d_{a \min}$  | 32 mm | Minimum diameter shaft shoulder      |
| $d_{a \max}$  | 33 mm | Maximum diameter of shaft shoulder   |
| $d_{b \min}$  | 37 mm | Minimum shaft shoulder               |
| $D_{a \max}$  | 55 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$  | 1 mm  | Maximum recess radius                |
| $r_{a1 \max}$ | 1 mm  | Maximum recess radius                |

### Dimensions

|              |         |                                 |
|--------------|---------|---------------------------------|
| $r_{\min}$   | 1,1 mm  | Minimum chamfer dimension       |
| $r_{1 \min}$ | 1,1 mm  | Minimum chamfer dimension       |
| s            | 1,5 mm  | Axial displacement              |
| E            | 54 mm   | Raceway diameter outer ring     |
| F            | 34 mm   | Raceway diameter inner ring     |
| $D_{1 \min}$ | 50,7 mm | Minimum rib diameter outer ring |

### Temperature range

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

### Characteristics

|   |                    |
|---|--------------------|
|  | Radial load        |
|  | Grease Lubrication |
|  | Oil Lubrication    |
|  | Not sealed         |