



FAG

NUP2304-E-XL-TVP2

Cylindrical roller bearing

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

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 & Performance Data

| | | |
|-------------|--------------|-----------------------------------|
| d | 20 mm | Bore diameter |
| D | 52 mm | Outside diameter |
| B | 21 mm | Width |
| C_r | 49,500 N | Basic dynamic load rating, radial |
| C_{0r} | 39,000 N | Basic static load rating, radial |
| C_{ur} | 6,300 N | Fatigue load limit, radial |
| n_G | 19,700 1/min | Limiting speed |
| n_{gr} | 9,700 1/min | Reference speed |
| $\approx m$ | 0.224 kg | Weight |



Mounting dimensions

| | | |
|---------------------|---------|--------------------------------------|
| d_1 | 31.3 mm | Maximum rib diameter inner ring |
| $D_{1 \text{ min}}$ | 42.4 mm | Minimum rib diameter outer ring |
| $d_{a \text{ min}}$ | 24 mm | Minimum diameter shaft shoulder |
| $d_{c \text{ min}}$ | 33 mm | Minimum shaft shoulder |
| $D_{a \text{ max}}$ | 45 mm | Maximum diameter of housing shoulder |
| $r_{a \text{ max}}$ | 1 mm | Maximum recess radius |







Dimensions

| | | |
|---------------------|---------|-----------------------------|
| r_{min} | 1.1 mm | Minimum chamfer dimension |
| $r_{1 \text{ min}}$ | 0.6 mm | Minimum chamfer dimension |
| E | 45.5 mm | Raceway diameter outer ring |
| F | 27.5 mm | Raceway diameter inner ring |
| B_3 | 3.5 mm | Width of loose rib |

Temperature range

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

Characteristics

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