

**FAG****N309-E-XL-TVP2** [↗](#)

Cylindrical roller bearing

Cylindrical roller bearing N3..-E-TVP2, with cage, single row, non-locating bearing, 0 ribs on outer ring, 2 rib on inner ring, type N3

Technical information

**Your current product variant**

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

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|---------------------------------------|
| d | 45 mm | Bore diameter |
| D | 100 mm | Outside diameter |
| B | 25 mm | Width |
| C_r | 116,000 N | Basic dynamic load rating, radial |
| C_{0r} | 99,000 N | Basic static load rating, radial |
| C_{ur} | 17,600 N | Fatigue load limit, radial |
| n_G Grease | 8,300 1/min | Limiting speed for grease lubrication |
| n_G Oil | 9,800 1/min | Limiting speed for oil lubrication |
| $\approx m$ | 0.87 kg | Weight |

Mounting dimensions

| | | |
|---------------|--------|------------------------------|
| d_a | 54 mm | Diameter shaft shoulder |
| D_a | 91 mm | Diameter of housing shoulder |
| $r_{a1 \max}$ | 1.5 mm | Maximum recess radius |



Dimensions

| | | |
|---------------------|---------|-----------------------------|
| $r_{1 \text{ min}}$ | 1.5 mm | Minimum chamfer dimension |
| s_1 | 1 mm | Axial displacement |
| E | 88.5 mm | Raceway 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