



FAG

NUP2318-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 | 90 mm | Bore diameter |
| D | 190 mm | Outside diameter |
| B | 64 mm | Width |
| C_r | 510.000 N | Basic dynamic load rating, radial |
| C_{0r} | 530.000 N | Basic static load rating, radial |
| C_{ur} | 94.000 N | Fatigue load limit, radial |
| n_G | 4.900 1/min | Limiting speed |
| n_{gr} | 3.000 1/min | Reference speed |
| $\approx m$ | 8,2 kg | Weight |



Mounting dimensions

| | | |
|---------------------|----------|--------------------------------------|
| d_1 | 124 mm | Maximum rib diameter inner ring |
| $D_{1 \text{ min}}$ | 161,6 mm | Minimum rib diameter outer ring |
| $d_{a \text{ min}}$ | 104 mm | Minimum diameter shaft shoulder |
| $d_{c \text{ min}}$ | 127 mm | Minimum shaft shoulder |
| $D_{a \text{ max}}$ | 176 mm | Maximum diameter of housing shoulder |
| $r_{a \text{ max}}$ | 2,5 mm | Maximum recess radius |

Dimensions

| | | |
|---------------------|----------|-----------------------------|
| r_{min} | 3 mm | Minimum chamfer dimension |
| $r_{1 \text{ min}}$ | 3 mm | Minimum chamfer dimension |
| E | 169,5 mm | Raceway diameter outer ring |
| F | 113,5 mm | Raceway diameter inner ring |
| B_3 | 10 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