



FAG

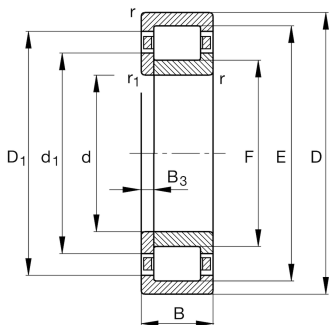
**NUP316-E-XL-M1-F1-C4**

Cylindrical roller bearing

Cylindrical roller bearing NUP..-E-XL-M1, 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                      | M1           | Two Piece Brass Cage Roller Guided |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3  |
| Tolerance class           | PN           | Normal (ISO 492:2023)              |
| Number of rows            | 1            | Single-row design                  |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 80 mm       | Bore diameter                     |
| D               | 170 mm      | Outside diameter                  |
| B               | 39 mm       | Width                             |
| C <sub>r</sub>  | 300.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 275.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 50.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 7.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.100 1/min | Reference speed                   |
| m               | 4,54 kg     | Weight                            |



### Mounting dimensions

|                     |           |                                      |
|---------------------|-----------|--------------------------------------|
| $d_1$               | 110,4 mm  | Maximum rib diameter inner ring      |
| $D_{1 \text{ min}}$ | 143,94 mm | Minimum rib diameter outer ring      |
| $d_{a \text{ min}}$ | 92 mm     | Minimum diameter shaft shoulder      |
| $d_{c \text{ min}}$ | 114 mm    | Minimum shaft shoulder               |
| $D_{a \text{ max}}$ | 158 mm    | Maximum diameter of housing shoulder |
| $r_{a \text{ max}}$ | 2 mm      | Maximum recess radius                |

### Dimensions

|                     |        |                             |
|---------------------|--------|-----------------------------|
| $r_{\text{min}}$    | 2,1 mm | Minimum chamfer dimension   |
| $r_{1 \text{ min}}$ | 2,1 mm | Minimum chamfer dimension   |
| E                   | 151 mm | Raceway diameter outer ring |
| F                   | 101 mm | Raceway diameter inner ring |
| $B_3$               | 6 mm   | Width of loose rib          |

### Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| $T_{\text{min}}$ | -30 °C | Operating temperature min. |
| $T_{\text{max}}$ | 150 °C | Operating temperature max. |

### Characteristics

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