



FAG

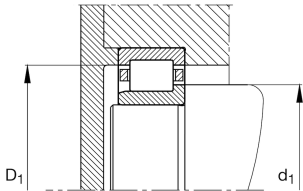
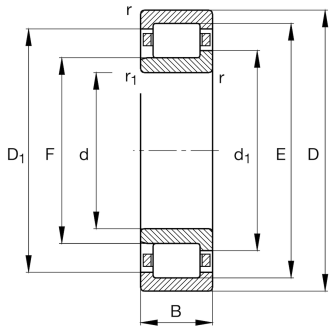
NJ314-E-XL-M1 [🔗](#)

Cylindrical roller bearing

Cylindrical roller bearing NJ..-E-XL-M1, with cage, single row, semi-locating bearing, 2 ribs on outer ring, 1 rib on inner ring, type NJ

X-life

Technical information

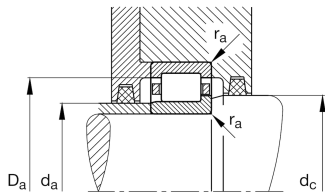


Your current product variant

|                           |              |                                    |
|---------------------------|--------------|------------------------------------|
| Design                    | E            | Increased Capacity Design          |
| Cage                      | M1           | Two Piece Brass Cage Roller Guided |
| 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               | 70 mm       | Bore diameter                     |
| D               | 150 mm      | Outside diameter                  |
| B               | 35 mm       | Width                             |
| C <sub>r</sub>  | 242.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 222.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 40.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 8.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.500 1/min | Reference speed                   |
| ≈m              | 3,089 kg    | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 82 mm  | Minimum diameter shaft shoulder      |
| $d_{a \max}$ | 87 mm  | Maximum diameter of shaft shoulder   |
| $D_{a \max}$ | 138 mm | Maximum diameter of housing shoulder |
| $d_{c \min}$ | 100 mm | Minimum shaft shoulder               |
| $r_{a \max}$ | 2 mm   | Maximum recess radius                |

### Dimensions

|            |           |                                 |
|------------|-----------|---------------------------------|
| $r_{\min}$ | 2,1 mm    | Minimum chamfer dimension       |
| $r_1 \min$ | 2,1 mm    | Minimum chamfer dimension       |
| s          | 1,7 mm    | Axial displacement              |
| E          | 133 mm    | Raceway diameter outer ring     |
| F          | 89 mm     | Raceway diameter inner ring     |
| $D_1 \min$ | 126,82 mm | Minimum rib diameter outer ring |
| $d_1$      | 97,35 mm  | Maximum rib diameter inner ring |

### Temperature range

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

### Additional information

|         |          |
|---------|----------|
| HJ314-E | L-washer |
|---------|----------|

### Characteristics

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