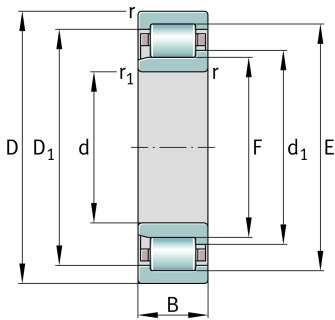


**FAG****NJ2318-E-XL-MPAX-ILR-C3** [↗](#)

Cylindrical roller bearing

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

## Technical information

**Your current product variant**

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | E            | Increased Capacity Design         |
| Cage                      | MPAX         | One Piece Brass Cage Lip Guided   |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| 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                             |
| $C_r$       | 640.000 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        |
| $n_G$       | 6.300 1/min | Limiting speed                    |
| $n_{gr}$    | 3.000 1/min | Reference speed                   |
| $\approx m$ | 9 kg        | Weight                            |

**Mounting dimensions**

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 104 mm | Minimum diameter shaft shoulder      |
| $d_{a \max}$ | 113 mm | Maximum diameter of shaft shoulder   |
| $D_{a \max}$ | 176 mm | Maximum diameter of housing shoulder |






## Dimensions

|              |           |                                 |
|--------------|-----------|---------------------------------|
| $r_{\min}$   | 3 mm      | Minimum chamfer dimension       |
| $r_{1 \min}$ | 3 mm      | Minimum chamfer dimension       |
| s            | 4,9 mm    | Axial displacement              |
| E            | 169,5 mm  | Raceway diameter outer ring     |
| F            | 113,5 mm  | Raceway diameter inner ring     |
| $D_{1 \min}$ | 161,62 mm | Minimum rib diameter outer ring |
| $d_1$        | 124 mm    | Maximum rib diameter inner ring |

## Temperature range

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

## Characteristics

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