

**FAG****NJ1036-XL-M1** [↗](#)

Cylindrical roller bearing

Cylindrical roller bearing NJ..-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 | Standard | |
| Cage | M1 | Two Piece Brass Cage Roller Guided |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Tolerance class | PN | Normal (PN) |
| Number of rolling element rows | 1 | Single-row design |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 180 mm | Bore diameter |
| D | 280 mm | Outside diameter |
| B | 46 mm | Width |
| C_r | 425.000 N | Basic dynamic load rating, radial |
| C_{0r} | 520.000 N | Basic static load rating, radial |
| C_{ur} | 79.000 N | Fatigue load limit, radial |
| n_G | 4.500 1/min | Limiting speed |
| n_{gr} | 2.550 1/min | Reference speed |
| m | 10,56 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 190 mm | Minimum diameter shaft shoulder |
| $d_{a \max}$ | 203 mm | Maximum diameter of shaft shoulder |
| $D_{a \max}$ | 270 mm | Maximum diameter of housing shoulder |
| $d_{c \min}$ | 217 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 | 5 mm | Axial displacement |
| E | 255 mm | Raceway diameter outer ring |
| F | 205 mm | Raceway diameter inner ring |
| $D_{1 \min}$ | 245,9 mm | Minimum rib diameter outer ring |
| d_1 | 214,8 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 |