



FAG

NJ220-E-XL-MPAX-C4 [↗](#)

Cylindrical roller bearing

Cylindrical roller bearing NJ..-E-XL-MPAX,
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 | MPAX | One Piece Brass Cage Lip 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 & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 100 mm | Bore diameter |
| D | 180 mm | Outside diameter |
| B | 34 mm | Width |
| C _r | 295.000 N | Basic dynamic load rating, radial |
| C _{0r} | 305.000 N | Basic static load rating, radial |
| C _{ur} | 52.000 N | Fatigue load limit, radial |
| n _G | 6.800 1/min | Limiting speed |
| n _{gr} | 3.450 1/min | Reference speed |
| m | 3,81 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 112 mm | Minimum diameter shaft shoulder |
| $d_{a \max}$ | 117 mm | Maximum diameter of shaft shoulder |
| $D_{a \max}$ | 168 mm | Maximum diameter of housing shoulder |
| $d_{c \min}$ | 130 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 | 1,5 mm | Axial displacement |
| E | 163 mm | Raceway diameter outer ring |
| F | 119 mm | Raceway diameter inner ring |
| $D_1 \min$ | 156,9 mm | Minimum rib diameter outer ring |
| d_1 | 127,3 mm | Maximum rib diameter inner ring |

Temperature range






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

Additional information

HJ220-E

L-washer

Characteristics

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