



FAG

**NJ220-E-XL-MPAX-C3** [↗](#)

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	C3 (Group 3)	Internal clearance larger than CN
Tolerance class	PN	Normal (ISO 492:2023)
Number of rows	1	Single-row design

## Main Dimensions &amp; Performance Data

d	100 mm	Bore diameter
D	180 mm	Outside diameter
B	34 mm	Width
C <sub>r</sub>	295.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	305.000 N	Basic static load rating, radial
C <sub>ur</sub>	52.000 N	Fatigue load limit, radial
n <sub>G</sub>	6.800 1/min	Limiting speed
n <sub>gr</sub>	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