

**FAG****NJ209-E-XL-TVP2-C3**

Cylindrical roller bearing

Cylindrical roller bearing NJ..-E-XL-TVP2, 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	TVP2	Solid Window Cage made from PA66
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	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
C_r	72,000 N	Basic dynamic load rating, radial
C_{0r}	63,000 N	Basic static load rating, radial
C_{ur}	10,500 N	Fatigue load limit, radial
n_G	10,200 1/min	Limiting speed
n_{gr}	7,000 1/min	Reference speed
m	0.432 kg	Weight



Mounting dimensions

$d_{a \min}$	52 mm	Minimum diameter shaft shoulder
$d_{a \max}$	54 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	78 mm	Maximum diameter of housing shoulder
$d_{c \min}$	61 mm	Minimum shaft shoulder
$r_{a \max}$	1 mm	Maximum recess radius

Dimensions

r_{\min}	1.1 mm	Minimum chamfer dimension
$r_{1 \min}$	1.1 mm	Minimum chamfer dimension
s	1.9 mm	Axial displacement
E	76.5 mm	Raceway diameter outer ring
F	54.5 mm	Raceway diameter inner ring
$D_{1 \min}$	73.3 mm	Minimum rib diameter outer ring
d_1	59 mm	Maximum rib diameter inner ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Additional information

HJ209-E

L-washer

Characteristics

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