



FAG

NJ320-E-XL-TVP2

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

X-life

Technical information



Your current product variant

Design	E	Increased Capacity Design
Cage	TVP2	Solid Window Cage made from PA66
Radial internal clearance	CN (Group N)	Normal internal clearance
Tolerance class	PN	Normal (ISO 492:2023)
Number of rows	1	Single-row design

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	215 mm	Outside diameter
B	47 mm	Width
C _r	450,000 N	Basic dynamic load rating, radial
C _{0r}	425,000 N	Basic static load rating, radial
C _{ur}	72,000 N	Fatigue load limit, radial
n _G	4,250 1/min	Limiting speed
n _{gr}	3,350 1/min	Reference speed
m	7.58 kg	Weight



Mounting dimensions

$d_{a \text{ min}}$	114 mm	Minimum diameter shaft shoulder
$d_{a \text{ max}}$	125 mm	Maximum diameter of shaft shoulder
$D_{a \text{ max}}$	201 mm	Maximum diameter of housing shoulder
$d_{c \text{ min}}$	143 mm	Minimum shaft shoulder
$r_{a \text{ max}}$	2.5 mm	Maximum recess radius

Dimensions

r_{min}	3 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	3 mm	Minimum chamfer dimension
s	1.2 mm	Axial displacement
E	191.5 mm	Raceway diameter outer ring
F	127.5 mm	Raceway diameter inner ring
$D_{1 \text{ min}}$	182 mm	Minimum rib diameter outer ring
d_1	139.4 mm	Maximum rib diameter inner ring

Temperature range

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

Additional information

HJ320-E

L-washer

Characteristics

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