



FAG

NJ221-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	105 mm	Bore diameter
D	190 mm	Outside diameter
B	36 mm	Width
C _r	310.000 N	Basic dynamic load rating, radial
C _{0r}	320.000 N	Basic static load rating, radial
C _{ur}	54.000 N	Fatigue load limit, radial
n _G	5.000 1/min	Limiting speed
n _{gr}	3.400 1/min	Reference speed
≈m	4,1 kg	Weight



Mounting dimensions

$d_{a \min}$	117 mm	Minimum diameter shaft shoulder
$d_{a \max}$	123 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	178 mm	Maximum diameter of housing shoulder
$d_{c \min}$	137 mm	Minimum shaft shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
$r_{1 \min}$	2,1 mm	Minimum chamfer dimension
s	1,3 mm	Axial displacement
E	171,5 mm	Raceway diameter outer ring
F	125,5 mm	Raceway diameter inner ring
$D_{1 \min}$	165,1 mm	Minimum rib diameter outer ring
d_1	134,5 mm	Maximum rib diameter inner ring

Temperature range

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

Additional information

HJ221-E

L-washer

Characteristics



Radial load



Axial load in one direction



Grease Lubrication



Oil Lubrication



Not sealed