



FAG

NJ307-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

X-life

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	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
C _r	76,000 N	Basic dynamic load rating, radial
C _{0r}	63,000 N	Basic static load rating, radial
C _{ur}	10,800 N	Fatigue load limit, radial
n _G	12,600 1/min	Limiting speed
n _{gr}	7,900 1/min	Reference speed
m	0.481 kg	Weight



Mounting dimensions

$d_{a \min}$	42 mm	Minimum diameter shaft shoulder
$d_{a \max}$	45 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	71 mm	Maximum diameter of housing shoulder
$d_{c \min}$	53 mm	Minimum shaft shoulder
$r_{a \max}$	1.5 mm	Maximum recess radius

Dimensions

r_{\min}	1.5 mm	Minimum chamfer dimension
$r_{1 \min}$	1.1 mm	Minimum chamfer dimension
s	0.6 mm	Axial displacement
E	70.2 mm	Raceway diameter outer ring
F	46.2 mm	Raceway diameter inner ring
$D_{1 \min}$	66.6 mm	Minimum rib diameter outer ring
d_1	51 mm	Maximum rib diameter inner ring

Temperature range

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

Additional information

HJ307-E

L-washer

Characteristics

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