



FAG

NJ303-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	17 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
C _r	30,000 N	Basic dynamic load rating, radial
C _{0r}	21,200 N	Basic static load rating, radial
C _{ur}	3,400 N	Fatigue load limit, radial
n _G	22,500 1/min	Limiting speed
n _{gr}	13,500 1/min	Reference speed
m	0.124 kg	Weight



Mounting dimensions

$d_{a \min}$	21.2 mm	Minimum diameter shaft shoulder
$d_{a \max}$	23.5 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	42.8 mm	Maximum diameter of housing shoulder
$d_{c \min}$	28 mm	Minimum shaft shoulder
$r_{a \max}$	1 mm	Maximum recess radius

Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
$r_{1 \min}$	0.6 mm	Minimum chamfer dimension
s	1.2 mm	Axial displacement
E	40.2 mm	Raceway diameter outer ring
F	24.2 mm	Raceway diameter inner ring
$D_{1 \min}$	37.1 mm	Minimum rib diameter outer ring
d_1	27.6 mm	Maximum rib diameter inner ring

Temperature range

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

Additional information

HJ303-E

L-washer

Characteristics



Radial load



Axial load in one direction



Grease Lubrication



Oil Lubrication



Not sealed