



FAG

NUP314-E-XL-TVP2

Cylindrical roller bearing

Cylindrical roller bearing NUP...-E-XL-TVP2, with cage, single row, locating bearing, 2 ribs on outer ring, 1 rib on inner ring, rib washer internal, type NUP

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	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width
C_r	242,000 N	Basic dynamic load rating, radial
C_{0r}	222,000 N	Basic static load rating, radial
C_{ur}	40,500 N	Fatigue load limit, radial
n_G	6,300 1/min	Limiting speed
n_{gr}	4,500 1/min	Reference speed
m	2.85 kg	Weight



Mounting dimensions

d_1	97.4 mm	Maximum rib diameter inner ring
$D_{1 \text{ min}}$	126.8 mm	Minimum rib diameter outer ring
$d_{a \text{ min}}$	82 mm	Minimum diameter shaft shoulder
$d_{c \text{ min}}$	100 mm	Minimum shaft shoulder
$D_{a \text{ max}}$	138 mm	Maximum diameter of housing shoulder
$r_{a \text{ max}}$	2.1 mm	Maximum recess radius

Dimensions

r_{min}	2.1 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	2.1 mm	Minimum chamfer dimension
E	133 mm	Raceway diameter outer ring
F	89 mm	Raceway diameter inner ring
B_3	5.5 mm	Width of loose rib

Temperature range

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

Characteristics

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