



FAG

**NUP320-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 &amp; 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
$\approx m$	7.74 kg	Weight



### Mounting dimensions

$d_1$	139.4 mm	Maximum rib diameter inner ring
$D_{1 \text{ min}}$	182 mm	Minimum rib diameter outer ring
$d_{a \text{ min}}$	114 mm	Minimum diameter shaft shoulder
$d_{c \text{ min}}$	143 mm	Minimum shaft shoulder
$D_{a \text{ max}}$	201 mm	Maximum diameter of housing shoulder
$r_{a \text{ max}}$	2.5 mm	Maximum recess radius

### Dimensions

$r_{\text{min}}$	3 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	3 mm	Minimum chamfer dimension
E	191.5 mm	Raceway diameter outer ring
F	127.5 mm	Raceway diameter inner ring
$B_3$	7.5 mm	Width of loose rib

### Temperature range

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

### Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed