



FAG

NUP220-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	100 mm	Bore diameter
D	180 mm	Outside diameter
B	34 mm	Width
C_r	295,000 N	Basic dynamic load rating, radial
C_{0r}	305,000 N	Basic static load rating, radial
C_{ur}	52,000 N	Fatigue load limit, radial
n_G	5,300 1/min	Limiting speed
n_{gr}	3,450 1/min	Reference speed
$\approx m$	3.55 kg	Weight



Mounting dimensions

d_1	127.3 mm	Maximum rib diameter inner ring
$D_{1 \text{ min}}$	156.9 mm	Minimum rib diameter outer ring
$d_{a \text{ min}}$	112 mm	Minimum diameter shaft shoulder
$d_{c \text{ min}}$	130 mm	Minimum shaft shoulder
$D_{a \text{ max}}$	168 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	163 mm	Raceway diameter outer ring
F	119 mm	Raceway diameter inner ring
B_3	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