



FAG

NUP309-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	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C_r	116,000 N	Basic dynamic load rating, radial
C_{0r}	99,000 N	Basic static load rating, radial
C_{ur}	17,600 N	Fatigue load limit, radial
n_G	9,800 1/min	Limiting speed
n_{gr}	6,400 1/min	Reference speed
$\approx m$	0.93 kg	Weight



Mounting dimensions

d_1	64.4 mm	Maximum rib diameter inner ring
$D_{1 \text{ min}}$	84.1 mm	Minimum rib diameter outer ring
$d_{a \text{ min}}$	54 mm	Minimum diameter shaft shoulder
$d_{c \text{ min}}$	66 mm	Minimum shaft shoulder
$D_{a \text{ max}}$	91 mm	Maximum diameter of housing shoulder
$r_{a \text{ max}}$	1.5 mm	Maximum recess radius

Dimensions

r_{min}	1.5 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	1.5 mm	Minimum chamfer dimension
E	88.5 mm	Raceway diameter outer ring
F	58.5 mm	Raceway diameter inner ring
B_3	4.5 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