



FAG

NUP309-E-XL-TVP2-C3>A

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	C3 (Group 3)	Internal clearance larger than CN
Tolerance class	PN	Normal (PN)
Number of rolling element 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
$\approx m$	0,913 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