



FAG

NUP314-E-XL-M1-C3

Cylindrical roller bearing

Cylindrical roller bearing NUP.-E-XL-M1, 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	M1	Two Piece Brass Cage Roller Guided
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
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	8.200 1/min	Limiting speed
n _{gr}	4.500 1/min	Reference speed
m	3,18 kg	Weight



Mounting dimensions

d_1	97,35 mm	Maximum rib diameter inner ring
$D_{1 \text{ min}}$	126,82 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 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}	150 °C	Operating temperature max.

Characteristics

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