

**FAG****NU320-E-XL-M1A-C3** [↗](#)

Cylindrical roller bearing

Cylindrical roller bearing NU..-E-XL-M1A, with cage, single row, non-locating bearing, 2 ribs on outer ring, 0 ribs on inner ring (smooth), type NU, Running accuracy in P6

X-life

Technical information

Your current product variant

Design	E	Increased Capacity Design
Cage	M1A	Two Piece Brass Cage Lip 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	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}	54.000 N	Fatigue load limit, radial
n _G	5.600 1/min	Limiting speed
n _{gr}	3.350 1/min	Reference speed
m	8,986 kg	Weight



Mounting dimensions

$d_{a \min}$	114 mm	Minimum diameter shaft shoulder
$d_{a \max}$	125 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	132 mm	Minimum shaft shoulder
$D_{a \max}$	201 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius
$r_{a1 \max}$	2,5 mm	Maximum recess radius

Dimensions

r_{\min}	3 mm	Minimum chamfer dimension
$r_{1 \min}$	3 mm	Minimum chamfer dimension
s	1,2 mm	Axial displacement
E	191,5 mm	Raceway diameter outer ring
F	127,5 mm	Raceway diameter inner ring
$D_{1 \min}$	181,95 mm	Minimum rib diameter outer ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	150 °C	Operating temperature max.