



FAG

NU414-XL-M1

Cylindrical roller bearing

Cylindrical roller bearing NU..-XL-M1, 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	Standard	
Cage	M1	Two Piece Brass Cage Roller Guided
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	70 mm	Bore diameter
D	180 mm	Outside diameter
B	42 mm	Width
C _r	285,000 N	Basic dynamic load rating, radial
C _{0r}	255,000 N	Basic static load rating, radial
C _{ur}	33,500 N	Fatigue load limit, radial
n _G	7,100 1/min	Limiting speed
n _{gr}	4,250 1/min	Reference speed
m	5.97 kg	Weight



Mounting dimensions

$d_{a \min}$	86 mm	Minimum diameter shaft shoulder
$d_{a \max}$	99 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	102 mm	Minimum shaft shoulder
$D_{a \max}$	164 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	4 mm	Axial displacement
E	152 mm	Raceway diameter outer ring
F	100 mm	Raceway diameter inner ring
$D_{1 \min}$	142.7 mm	Minimum rib diameter outer ring

Temperature range

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

Characteristics

	Radial load
	Grease Lubrication
	Oil Lubrication
	Not sealed