



FAG

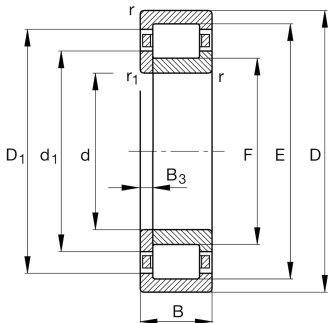
NUP315-E-XL-M1-C3

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	75 mm	Bore diameter
D	160 mm	Outside diameter
B	37 mm	Width
C _r	285,000 N	Basic dynamic load rating, radial
C _{0r}	265,000 N	Basic static load rating, radial
C _{ur}	47,000 N	Fatigue load limit, radial
n _G	7,600 1/min	Limiting speed
n _{gr}	4,150 1/min	Reference speed
≈m	3.83 kg	Weight



Mounting dimensions

d ₁	104.1 mm	Maximum rib diameter inner ring
D _{1 min}	136.24 mm	Minimum rib diameter outer ring
d _{a min}	87 mm	Minimum diameter shaft shoulder
d _{c min}	106 mm	Minimum shaft shoulder
D _{a max}	148 mm	Maximum diameter of housing shoulder
r _{a max}	2 mm	Maximum recess radius

Dimensions

r _{min}	2.1 mm	Minimum chamfer dimension
r _{1 min}	2.1 mm	Minimum chamfer dimension
E	143 mm	Raceway diameter outer ring
F	95 mm	Raceway diameter inner ring

B ₃	5.5 mm	Width of loose rib
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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