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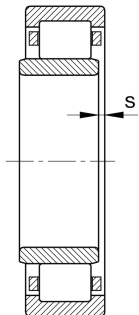
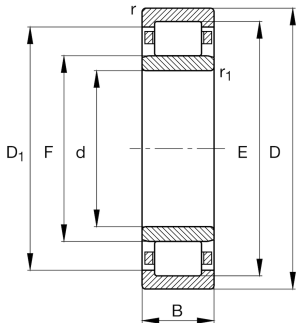
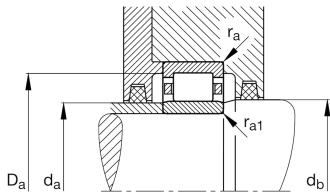
NU309-E-XL-M1

Cylindrical roller bearing

Cylindrical roller bearing NU..-E-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	E	Increased Capacity Design
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	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}	13,500 N	Fatigue load limit, radial
n _G	12,800 1/min	Limiting speed
n _{gr}	6,400 1/min	Reference speed
≈m	0.98 kg	Weight



Mounting dimensions

d a min	54 mm	Minimum diameter shaft shoulder
d a max	57 mm	Maximum diameter of shaft shoulder
d b min	60 mm	Minimum shaft shoulder
D a max	91 mm	Maximum diameter of housing shoulder
r a max	1.5 mm	Maximum recess radius
r a1 max	1.5 mm	Maximum recess radius

Dimensions

r min	1.5 mm	Minimum chamfer dimension
r 1 min	1.5 mm	Minimum chamfer dimension
s	1 mm	Axial displacement
E	88.5 mm	Raceway diameter outer ring
F	58.5 mm	Raceway diameter inner ring
D 1 min	84.12 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