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16.06.2026, 10:45:30 UTC

SCHAEFFLER

FAG

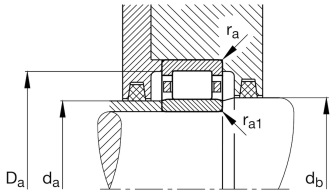
X-life

NU309-E-XL-M1

Cylindrical roller bearing

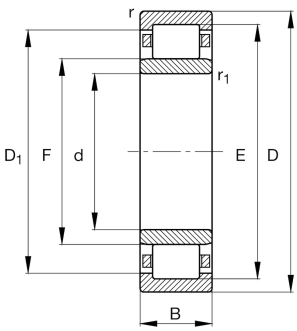
Cylindrical roller bearing NU..-E-XL-M1, with cage, single row, non-locating bearing, 2 ribs on outer ring, 0 ribs on inner ring (smooth), type NU, Running accuracy in P6

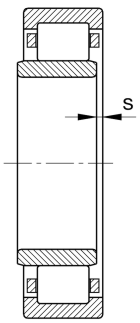
Technical information



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
$n_{\vartheta r}$	6,400 1/min	Reference speed
≈m	0.98 kg	Weight

The data sheet only contains an overview of the technical data of the selected product. Please refer to the additional documentation for this product. For further information, please use the following link on our website: Contact form

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

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