



FAG

NJ221-E-XL-M1

Cylindrical roller bearing

Cylindrical roller bearing NJ..-E-XL-M1, with cage, single row, semi-locating bearing, 2 ribs on outer ring, 1 rib on inner ring, type NJ

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	105 mm	Bore diameter
D	190 mm	Outside diameter
B	36 mm	Width
C_r	310,000 N	Basic dynamic load rating, radial
C_{0r}	320,000 N	Basic static load rating, radial
C_{ur}	54,000 N	Fatigue load limit, radial
n_G	6,500 1/min	Limiting speed
n_{gr}	3,400 1/min	Reference speed
m	4.758 kg	Weight



Mounting dimensions

$d_{a \min}$	117 mm	Minimum diameter shaft shoulder
$d_{a \max}$	123 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	178 mm	Maximum diameter of housing shoulder
$d_{c \min}$	137 mm	Minimum shaft 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
s	1.3 mm	Axial displacement
E	171.5 mm	Raceway diameter outer ring
F	126.8 mm	Raceway diameter inner ring
$D_{1 \min}$	165.12 mm	Minimum rib diameter outer ring
d_1	134.8 mm	Maximum rib diameter inner ring

Temperature range

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

Additional information

HJ221-E

L-washer

Characteristics

-  F_r Radial load
-  F_a Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed