



FAG

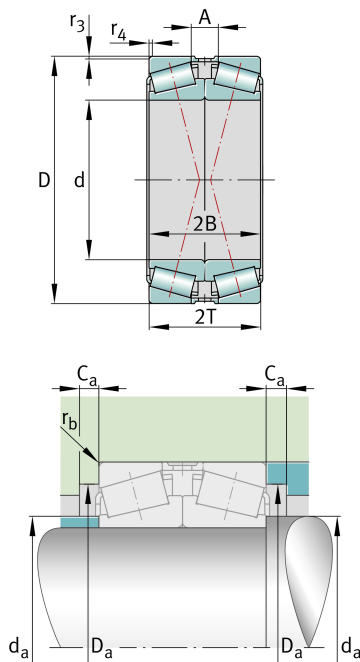
31309-XL-DF-A60-100

Tapered roller bearing set

Tapered roller bearing set 313...-DF, X-arrangement

X-life

Informacje techniczne



Twoja aktualna wersja produktu

Tolerance class	PN	Normal (ISO 492:2023)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Axial internal clearance	A60-100	Axial internal clearance between 60 and 100 µm
Quality level	XL	X-life
Matched arrangement	F	X arrangement
Number of rows	2	Double-row design

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
2B	50 mm	Inner ring total width
2T	54,5 mm	Outer ring total width
C _r	205.000 N	Basic dynamic load rating, radial
C _{0r}	217.000 N	Basic static load rating, radial
C _{ur}	32.500 N	Fatigue load limit, radial
n _G	8.600 1/min	Limiting speed
n _{gr}	4.650 1/min	Thermal speed rating
≈m	2,038 kg	Masa



Mounting dimensions

$d_{a\max}$	56 mm	Maximum diameter of shaft shoulder
$D_{a\min}$	79 mm	Minimum diameter of housing shoulder
$D_{a\max}$	91 mm	Maximum diameter of housing shoulder
$C_{a\min}$	4 mm	Minimum axial space
$r_{b\max}$	1,5 mm	Maximum fillet radius of housing

Dimensions

$r_{3,4\min}$	1,5 mm	Minimum chamfer dimension of outer ring back face
A	18,5 mm	Width of spacer

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

Calculation factors

e	0,83	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	0,82	Dynamic axial load factor
Y_2	1,22	Dynamic axial load factor
Y_0	0,8	Static axial load factor

Właściwości

	Obciążenie promieniowe
	Obciążenie osiowe jednokierunkowe
	Obciążenie osiowe dwukierunkowe
	Smarowanie smarem
	Smarowanie olejem
	Bez uszczelnienia