



FAG

31309-XL

Tapered roller bearing

Tapered roller bearings 313, main dimensions
acc. to DIN 720, separable

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
Internal design	Standard	
Quality level	XL	X-life
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, inner ring
C	18 mm	Width, outer ring
T	27,25 mm	Width, total
C _r	119.000 N	Basic dynamic load rating, radial
C _{0r}	108.000 N	Basic static load rating, radial
C _{ur}	16.300 N	Fatigue load limit, radial
n _G	8.600 1/min	Limiting speed
n _{gr}	4.650 1/min	Thermal speed rating
m	0,96 kg	Masa



Mounting dimensions

d _a max	56 mm	Maximum diameter of shaft shoulder
d _b min	54 mm	Minimum diameter of shaft shoulder
D _a min	79 mm	Minimum diameter of housing shoulder
D _a max	91 mm	Maximum diameter of housing shoulder
D _b min	95 mm	Minimum diameter of housing shoulder
C _a min	4 mm	Minimum axial space
C _b min	9 mm	Minimum axial space
r _a max	2 mm	Maximum fillet radius of shaft
r _b max	1,5 mm	Maximum fillet radius of housing

Dimensions

r _{1, 2} min	2 mm	Minimum chamfer dimension of inner ring back face
r _{3, 4} min	1,5 mm	Minimum chamfer dimension of outer ring back face
a	32 mm	Distance between the apexes of the pressure cones
d ₁	74,7 mm	Guidance rib diameter of inner ring

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.

Calculation factors

e	0,83	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	0,73	Dynamic axial load factor
Y ₀	0,4	Static axial load factor

Additional information

T7FB045	Comparative designation to ISO 10317 and ISO 355
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Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia