



FAG

30310-XL-S1

Tapered roller bearing

Tapered roller bearings 303, main dimensions
acc. to DIN 720, separable

X-life

Informacje techniczne



Twoja aktualna wersja produktu

Tolerance class	PN	Normal (ISO 492:2023)
Heat treatment	S1	Rings dimensional stabilized up to 200°
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	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width, inner ring
C	23 mm	Width, outer ring
T	29,25 mm	Width, total
C _r	155.000 N	Basic dynamic load rating, radial
C _{0r}	150.000 N	Basic static load rating, radial
C _{ur}	23.400 N	Fatigue load limit, radial
n _G	8.300 1/min	Limiting speed
n _{gr}	4.700 1/min	Thermal speed rating
m	1,26 kg	Masa



Mounting dimensions

d _a max	65 mm	Maximum diameter of shaft shoulder
d _b min	60 mm	Minimum diameter of shaft shoulder
D _a min	95 mm	Minimum diameter of housing shoulder
D _a max	100 mm	Maximum diameter of housing shoulder
D _b min	102 mm	Minimum diameter of housing shoulder
C _a min	4 mm	Minimum axial space
C _b min	6 mm	Minimum axial space
r _a max	2,5 mm	Maximum fillet radius of shaft
r _b max	2 mm	Maximum fillet radius of housing

Dimensions

r _{1, 2} min	2,5 mm	Minimum chamfer dimension of inner ring back face
r _{3, 4} min	2 mm	Minimum chamfer dimension of outer ring back face
a	23 mm	Distance between the apexes of the pressure cones
d ₁	78,4 mm	Guidance rib diameter of inner ring

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	200 °C	Operating temperature max.

Calculation factors

e	0,35	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1,74	Dynamic axial load factor
Y ₀	0,96	Static axial load factor

Additional information

T2FB050	Comparative designation to ISO 10317 and ISO 355
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Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia