



FAG

31330-X-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
Quality level	XL	X-life
Number of rows	1	Single-row design

Main Dimensions & Performance Data

d	150 mm	Bore diameter
D	320 mm	Outside diameter
B	75 mm	Width, inner ring
C	50 mm	Width, outer ring
T	82 mm	Width, total
C _r	980.000 N	Basic dynamic load rating, radial
C _{0r}	1.040.000 N	Basic static load rating, radial
C _{ur}	130.000 N	Fatigue load limit, radial
n _G	2.550 1/min	Limiting speed
n _{gr}	1.540 1/min	Thermal speed rating
≈m	27,5 kg	Masa



Mounting dimensions

$d_{a \max}$	181 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	168 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	251 mm	Minimum diameter of housing shoulder
$D_{a \max}$	302 mm	Maximum diameter of housing shoulder
$D_{b \min}$	300 mm	Minimum diameter of housing shoulder
$C_{a \min}$	9 mm	Minimum axial space
$C_{b \min}$	32 mm	Minimum axial space
$r_{a \max}$	5 mm	Maximum fillet radius of shaft
$r_{b \max}$	4 mm	Maximum fillet radius of housing

Dimensions

$r_{1, 2 \min}$	5 mm	Minimum chamfer dimension of inner ring back face
$r_{3, 4 \min}$	4 mm	Minimum chamfer dimension of outer ring back face
a	100 mm	Distance between the apexes of the pressure cones
d_1	235,5 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	0,83	Limiting value of F_a/F_r 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

T7GB150

Comparative designation to ISO 10317 and ISO 355



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia



Łożysko gabarytowe