



FAG

33120-H

Tapered roller bearing

Tapered roller bearings 331, main dimensions acc. to DIN 720, separable

Informacje techniczne



Twoja aktualna wersja produktu

Tolerance class	P6X	Class 6X (ISO 492:2023)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Internal design	Standard	
Quality level	H	
Number of rows	1	Single-row design

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	165 mm	Outside diameter
B	52 mm	Width, inner ring
C	40 mm	Width, outer ring
T	52 mm	Width, total
C _r	309.000 N	Basic dynamic load rating, radial
C _{0r}	520.000 N	Basic static load rating, radial
C _{ur}	63.000 N	Fatigue load limit, radial
n _G	3.200 1/min	Limiting speed
n _{gr}	2.700 1/min	Thermal speed rating
≈m	4,39 kg	Masa



Mounting dimensions

$d_{a \max}$	111 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	110 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	142 mm	Minimum diameter of housing shoulder
$D_{a \max}$	155 mm	Maximum diameter of housing shoulder
$D_{b \min}$	159 mm	Minimum diameter of housing shoulder
$C_{a \min}$	8 mm	Minimum axial space
$C_{b \min}$	12 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	40 mm	Distance between the apexes of the pressure cones
$d_1 \max$	136,5 mm	Maximum 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	0,41	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	1,48	Dynamic axial load factor
Y_0	0,81	Static axial load factor

Additional information

T3EE100

Comparative designation to ISO 10317 and ISO 355



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia