



FAG

31316-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	80 mm	Bore diameter
D	170 mm	Outside diameter
B	39 mm	Width, inner ring
C	27 mm	Width, outer ring
T	42,5 mm	Width, total
C _r	280.000 N	Basic dynamic load rating, radial
C _{0r}	270.000 N	Basic static load rating, radial
C _{ur}	39.500 N	Fatigue load limit, radial
n _G	5.000 1/min	Limiting speed
n _{gr}	3.150 1/min	Thermal speed rating
m	4,045 kg	Masa



Mounting dimensions

$d_{a \max}$	97 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	92 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	134 mm	Minimum diameter of housing shoulder
$D_{a \max}$	158 mm	Maximum diameter of housing shoulder
$D_{b \min}$	159 mm	Minimum diameter of housing shoulder
$C_{a \min}$	6 mm	Minimum axial space
$C_{b \min}$	15 mm	Minimum axial space
$r_{a \max}$	3 mm	Maximum fillet radius of shaft
$r_{b \max}$	2,5 mm	Maximum fillet radius of housing

Dimensions

$r_{1, 2 \min}$	3 mm	Minimum chamfer dimension of inner ring back face
$r_{3, 4 \min}$	2,5 mm	Minimum chamfer dimension of outer ring back face
a	52,8 mm	Distance between the apexes of the pressure cones
d_1	124,4 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 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

T7GB080

Comparative designation to ISO 10317 and ISO 355



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia