



FAG

31314-XL-S1

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	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	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width, inner ring
C	25 mm	Width, outer ring
T	38 mm	Width, total
C _r	221.000 N	Basic dynamic load rating, radial
C _{0r}	219.000 N	Basic static load rating, radial
C _{ur}	33.500 N	Fatigue load limit, radial
n _G	5.700 1/min	Limiting speed
n _{gr}	3.450 1/min	Thermal speed rating
m	2,888 kg	Masa



Mounting dimensions

$d_{a \max}$	84 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	82 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	118 mm	Minimum diameter of housing shoulder
$D_{a \max}$	138 mm	Maximum diameter of housing shoulder
$D_{b \min}$	141 mm	Minimum diameter of housing shoulder
$C_{a \min}$	5 mm	Minimum axial space
$C_{b \min}$	13 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	47 mm	Distance between the apexes of the pressure cones
d_1	110,4 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	0,83	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

T7GB070

Comparative designation to ISO 10317 and ISO 355



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia