



FAG

31314-H

Tapered roller bearing

Tapered roller bearings 313, main dimensions
acc. to DIN 720, separable

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	H	
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	178.000 N	Basic dynamic load rating, radial
C _{0r}	219.000 N	Basic static load rating, radial
C _{ur}	26.500 N	Fatigue load limit, radial
n _G	3.760 1/min	Limiting speed
n _{gr}	3.450 1/min	Thermal speed rating
≈m	2,88 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 max	111,7 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	0,83	Limiting value of Fa/Fr 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
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Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia