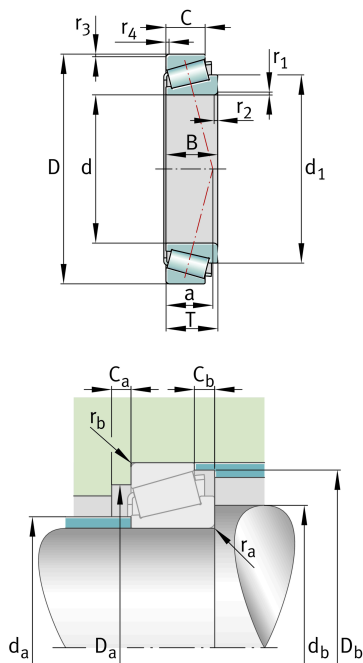


**FAG****30316-H**

Tapered roller bearing

Tapered roller bearings 303, main dimensions
acc. to DIN 720, separable

Technical information



Your current product variant

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	80 mm	Bore diameter
D	170 mm	Outside diameter
B	39 mm	Width, inner ring
C	33 mm	Width, outer ring
T	42,5 mm	Width, total
C _r	271.000 N	Basic dynamic load rating, radial
C _{0r}	345.000 N	Basic static load rating, radial
C _{ur}	40.000 N	Fatigue load limit, radial
n _G	3.400 1/min	Limiting speed
n _{gr}	3.200 1/min	Thermal speed rating
m	4,37 kg	Weight



Mounting dimensions

d _a max	102 mm	Maximum diameter of shaft shoulder
d _b min	92 mm	Minimum diameter of shaft shoulder
D _a min	148 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	5 mm	Minimum axial space
C _b min	9,5 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	34 mm	Distance between the apexes of the pressure cones
d ₁ max	124,7 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	0,35	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1,74	Dynamic axial load factor
Y ₀	0,96	Static axial load factor

Additional information

T2GB080	Comparative designation to ISO 10317 and ISO 355
---------	--



Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed