



FAG

30209-H

Tapered roller bearing

Tapered roller bearings 302, 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	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width, inner ring
C	16 mm	Width, outer ring
T	20,75 mm	Width, total
C _r	66.500 N	Basic dynamic load rating, radial
C _{0r}	82.000 N	Basic static load rating, radial
C _{ur}	9.800 N	Fatigue load limit, radial
n _G	7.040 1/min	Limiting speed
n _{gr}	5.400 1/min	Thermal speed rating
≈m	470 g	Masa



Mounting dimensions

d a max	54 mm	Maximum diameter of shaft shoulder
d b min	52 mm	Minimum diameter of shaft shoulder
D a min	74 mm	Minimum diameter of housing shoulder
D a max	78 mm	Maximum diameter of housing shoulder
D b min	80 mm	Minimum diameter of housing shoulder
C a min	3 mm	Minimum axial space
C b min	4,5 mm	Minimum axial space
r a max	1,5 mm	Maximum fillet radius of shaft
r b max	1,5 mm	Maximum fillet radius of housing

Dimensions

r 1, 2 min	1,5 mm	Minimum chamfer dimension of inner ring back face
r 3, 4 min	1,5 mm	Minimum chamfer dimension of outer ring back face
a	18 mm	Distance between the apexes of the pressure cones
d 1 max	65,6 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	0,4	Limiting value of Fa/Fr 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

T3DB045	Comparative designation to ISO 10317 and ISO 355
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Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia