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SCHAEFFLER

FAG

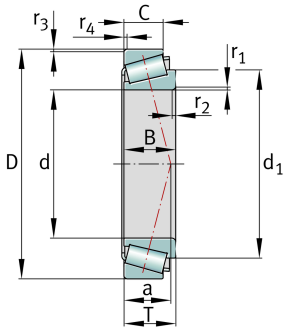
30214-XL-P5

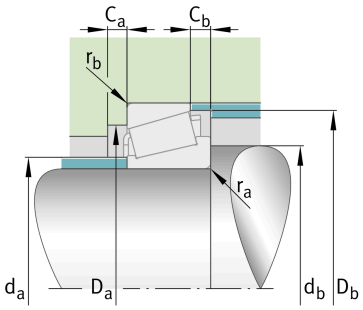
Tapered roller bearing

Tapered roller bearings 302, main dimensions acc. to DIN 720, separable

X-life

Technical information





Your current product variant

Tolerance class	P5	Class 5 (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	70 mm	Bore diameter
D	125 mm	Outside diameter
B	24 mm	Width, inner ring
C	21 mm	Width, outer ring
T	26,25 mm	Width, total
C_r	163.000 N	Basic dynamic load rating, radial
C_{0r}	162.000 N	Basic static load rating, radial
C_{ur}	25.000 N	Fatigue load limit, radial
n_G	7.100 1/min	Limiting speed
$n_{\vartheta r}$	3.700 1/min	Thermal speed rating
≈m	1,28 kg	Weight

Mounting dimensions

$d_{a\ max}$	81 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	79 mm	Minimum diameter of shaft shoulder
$D_{a\ min}$	110 mm	Minimum diameter of housing shoulder
$D_{a\ max}$	116 mm	Maximum diameter of housing shoulder
$D_{b\ min}$	118 mm	Minimum diameter of housing shoulder
$C_{a\ min}$	4 mm	Minimum axial space
$C_{b\ min}$	5 mm	Minimum axial space
$r_{a\ max}$	2 mm	Maximum fillet radius of shaft
$r_{b\ max}$	1,5 mm	Maximum fillet radius of housing

Dimensions

$r_{1,\ 2\ min}$	2 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	25 mm	Distance between the apexes of the pressure cones
d_1	95,2 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	0,42	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1,43	Dynamic axial load factor
Y_0	0,79	Static axial load factor

Additional information

	T3EB070	Comparative designation to ISO 10317 and ISO 355

Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Oil Lubrication


Not sealed