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SCHAEFFLER

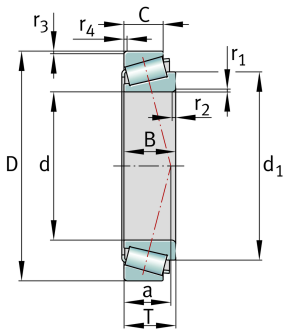
FAG

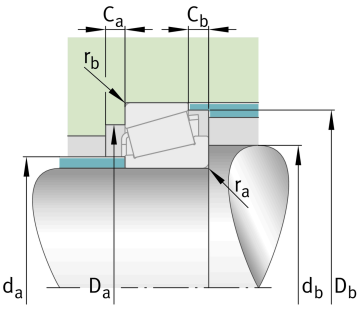
33024

Tapered roller bearing

Tapered roller bearings 330, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information





Your current product variant

Tolerance class	P6X	Class 6X (ISO 492:2014)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Internal design	Standard	
Quality level	Standard	
Number of rolling element rows	1	Single-row design

Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	48 mm	Width, inner ring
C	38 mm	Width, outer ring
T	48 mm	Width, total
C_r	310,000 N	Basic dynamic load rating, radial
C_{0r}	560,000 N	Basic static load rating, radial
C_{ur}	66,000 N	Fatigue load limit, radial
n_G	3,700 1/min	Limiting speed
$n_{\vartheta r}$	2,600 1/min	Thermal speed rating
≈m	4.214 kg	Weight

Mounting dimensions

$d_{a\ max}$	132 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	130 mm	Minimum diameter of shaft shoulder
$D_{a\ min}$	160 mm	Minimum diameter of housing shoulder
$D_{a\ max}$	170 mm	Maximum diameter of housing shoulder
$D_{b\ min}$	171 mm	Minimum diameter of housing shoulder
$C_{a\ min}$	6 mm	Minimum axial space
$C_{b\ min}$	10 mm	Minimum axial space
$r_{a\ max}$	2.5 mm	Maximum fillet radius of shaft
$r_{b\ max}$	2 mm	Maximum fillet radius of housing

Dimensions

$r_{1,\ 2\ min}$	2.5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,\ 4\ min}$	2 mm	Minimum chamfer dimension of outer ring back face
a	36 mm	Distance between the apexes of the pressure cones
d_1	148.5 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	0.31	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.97	Dynamic axial load factor
Y_0	1.08	Static axial load factor

Additional information

	T2DE120	Comparative designation to ISO 10317 and ISO 355

Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Oil Lubrication


Not sealed