

FAG

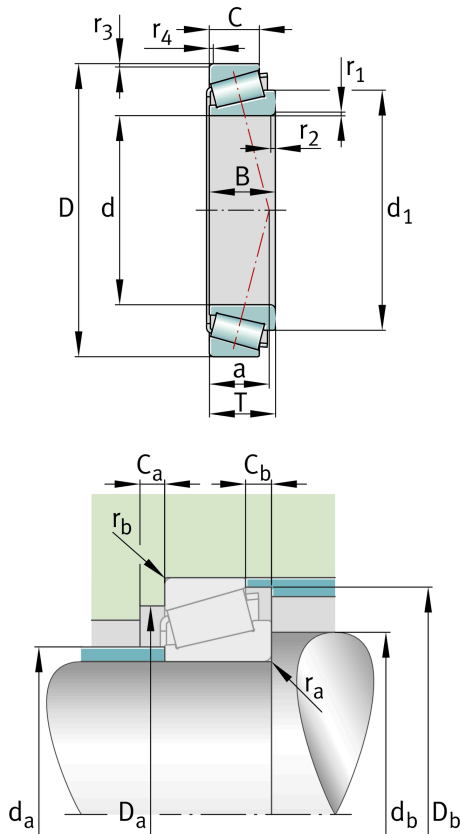
30221-A

Tapered roller bearing

Schaeffler ID:
0167107200000

Tapered roller bearings 302, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Main Dimensions & Performance Data

d	105 mm	Bore diameter
D	190 mm	Outside diameter
B	36 mm	Width, inner ring
C	30 mm	Width, outer ring
T	39 mm	Width, total
C_r	280,000 N	Basic dynamic load rating, radial
C_{0r}	365,000 N	Basic static load rating, radial
C_{ur}	41,000 N	Fatigue load limit, radial
n_G	3,800 1/min	Limiting speed
n_{gr}	2,700 1/min	Thermal speed rating
	4.418 kg	Weight

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	38 mm	Distance between the apexes of the pressure cones
d_1	143.2 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	122 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	117 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	165 mm	Minimum diameter of housing shoulder
$D_{a \max}$	178 mm	Maximum diameter of housing shoulder
$D_{b \min}$	177 mm	Minimum diameter of housing shoulder
$C_{a \min}$	6 mm	Minimum axial space
$C_{b \min}$	9 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

Calculation factors

	T3FB105	Comparative designation to ISO 10317 and ISO 355
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

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.