



FAG

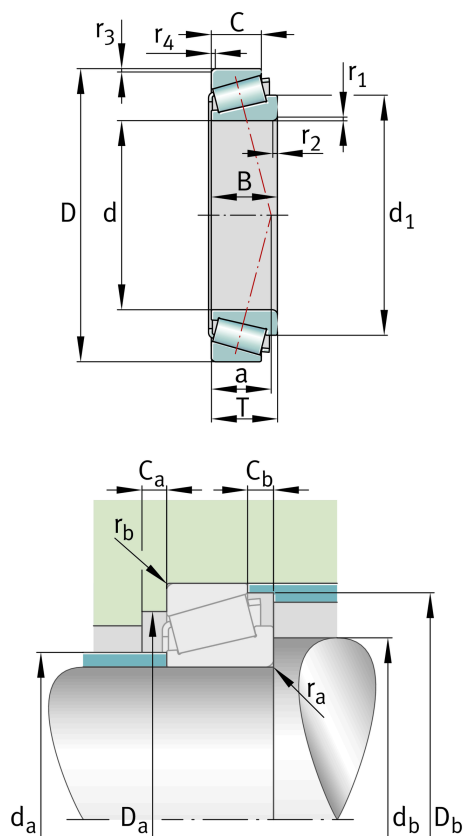
## 30224-XL

Tapered roller bearing

Schaeffler ID:  
0847191330000Tapered roller bearings 302, main  
dimensions to DIN ISO 355 / DIN 720,  
separable, adjusted or in pairs

X-life

## Technical information



## Main Dimensions &amp; Performance Data

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	40 mm	Width, inner ring
C	34 mm	Width, outer ring
T	43.5 mm	Width, total
$C_r$	395,000 N	Basic dynamic load rating, radial
$C_{0r}$	445,000 N	Basic static load rating, radial
$C_{ur}$	64,000 N	Fatigue load limit, radial
$n_G$	4,000 1/min	Limiting speed
$n_{gr}$	2,470 1/min	Thermal speed rating
	6.16 kg	Weight

## Dimensions

$r_{1,2 \text{ min}}$	3 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	2.5 mm	Minimum chamfer dimension of outer ring back face
a	44 mm	Distance between the apexes of the pressure cones
$d_1$	162 mm	Guidance rib diameter of inner ring

### Mounting dimensions

$d_{a \max}$	140 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	132 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	187 mm	Minimum diameter of housing shoulder
$D_{a \max}$	203 mm	Maximum diameter of housing shoulder
$D_{b \min}$	201 mm	Minimum diameter of housing shoulder
$C_{a \min}$	6 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

### Calculation factors

	T4FB120	Comparative designation to ISO 10317 and ISO 355
$e$	0.43	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y$	1.38	Dynamic axial load factor
$Y_0$	0.76	Static axial load factor

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.