



FAG

## 30234-XL

Tapered roller bearing

Schaeffler ID:  
0868481600000Tapered 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	170 mm	Bore diameter
D	310 mm	Outside diameter
B	52 mm	Width, inner ring
C	43 mm	Width, outer ring
T	57 mm	Width, total
$C_r$	690.000 N	Basic dynamic load rating, radial
$C_{0r}$	810.000 N	Basic static load rating, radial
$C_{ur}$	103.000 N	Fatigue load limit, radial
$n_G$	2.500 1/min	Limiting speed
$n_{gr}$	1.590 1/min	Thermal speed rating
	16,7 kg	Weight

## Dimensions

	T4GB170	Comparative designation to ISO 10317 and ISO 355
$r_{1,2 \text{ min}}$	5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	4 mm	Minimum chamfer dimension of outer ring back face
a	60 mm	Distance between the apexes of the pressure cones
$d_1$	232 mm	Guidance rib diameter of inner ring

### Mounting dimensions

$d_{a \max}$	203 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	188 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	269 mm	Minimum diameter of housing shoulder
$D_{a \max}$	292 mm	Maximum diameter of housing shoulder
$D_{b \min}$	288 mm	Minimum diameter of housing shoulder
$C_{a \min}$	8 mm	Minimum axial space
$C_{b \min}$	14 mm	Minimum axial space
$r_{a \max}$	5 mm	Maximum fillet radius of shaft
$r_{b \max}$	4 mm	Maximum fillet radius of housing

### Calculation factors

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.
$T_{\max}$	200 °C	Operating temperature max.